

# EPA Superfund Program: HQ-Lead Targeted Site Identification Project January 25, 2007



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EPA Superfund Program: HQ-Lead Targeted Site Identification Project  
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## EPA Superfund Program: HQ-Lead Targeted Site Identification Project Executive Summary

### Background

EPA's Office of Superfund Remediation and Technology Innovation (OSRTI) implemented a site identification project from January, 2005 through November, 2006 to determine whether a centralized approach would prove useful in finding unreported high human health risk sites. The project was initiated based on concerns about Superfund's reliance on other environmental programs to identify sites posing significant threats.

The national approach for this project was designed based on research of 11 geographic- and industry-based site identification projects conducted by states, EPA regions, and private sources. After considering these projects and analyzing types of sites recently considered for listing on the NPL, OSRTI focused this project on finding unreported smelters.

### Process

OSRTI used a private citizen's report prepared in 2001 and featured by ABC News to obtain a master list of 464 potential unknown battery lead, babbitt metal, and solder smelters. The 464 sites were identified by the citizen based on historical literature searches for potential smelters and cross-checking findings against EPA and state environmental databases.

OSRTI reformatted the source list and researched the CERCLIS and Envirofacts databases to eliminate 122 of the 464 sites from further consideration since they were now being addressed under an EPA cleanup program. OSRTI eliminated an additional 78 sites because of insufficient address information on the source list. For the remaining 264 sites, EPA added Census-based school and population data to each site using Hazard Ranking System (HRS) factors for screening sites. A sample of 31 sites was generated from the 264 sites based on the school and population data, and distributed to EPA regions in November, 2005 for site assessment work.

### Assessment Results

Preliminary analysis shows none of the sampled sites appears to present human health threats requiring Superfund remedial cleanup. Twenty (20) of the 31 sampled sites do not require further work under any program and many of these had no evidence of actual smelting operations at their locations. Six of the 31 were already being addressed under other state cleanup programs or by private parties at the time of the sample. Five of the 31 sites show no imminent human health risks and were already included in an existing regional project to study all of the sites on the master list.

### Recommendation

Findings demonstrate a centralized approach to finding unreported sites may not result in the identification of any unreported sites posing high human health risks. OSRTI's role in any future site identification project should be limited to managing the refinement and regional distribution of large volume site listings submitted to EPA for potential Federal Superfund attention. EPA regions can then incorporate and prioritize these sites as appropriate within existing site assessment workloads.

## EPA Superfund Program: HQ-Lead Targeted Site Identification Project Summary

### **I. Introduction**

EPA's Superfund Program generally implements a reactive, as opposed to proactive, site discovery program. Limited resources prevent our Federal, state, and tribal governments from systematically evaluating all of the nation's lands for hazardous waste contamination. State and other Federal environmental programs are the source for most of the 500 sites added to CERCLIS each year for Superfund remedial or removal attention. Citizens also report a small number of potentially hazardous waste sites directly to regional Superfund offices. While most of these sites require no Federal Superfund cleanup, a small number do pose potentially high human health risks.

EPA regional offices and state environmental programs have been conducting smaller-scale discovery pilot projects over the past several years, often focusing on a particular geographic area or industry of concern. Given the reactive nature of Superfund's site discovery program and awareness of the pilot projects, EPA's Office of Superfund Remediation and Technology Innovation (OSRTI) decided in the Summer of 2004 to explore national approaches to assist in finding unidentified high risk sites.

### **II. Project Purpose and Scope**

The purpose of this project was to determine whether a centralized approach would prove useful in identifying high human health risk sites that have gone unreported to date.

OSRTI focused on selecting a specific type of discovery project and researching information readily available on a national basis. Regional support was required to conduct the actual assessment work and make determinations whether potential sites presented health risks requiring Federal Superfund cleanup. OSRTI worked primarily with EPA regional site assessment staff throughout this project, noting that EPA regions have processes in place to involve EPA removal and state/tribal environmental programs as necessary. The project plan was finalized in January, 2005 with a project completion date scheduled for the end of November, 2006.

Project objectives included:

- Identifying a specific industrial sector and site type for this project;
- Researching source materials and developing a master list of potentially high risk sites;
- Refining the master list of sites by applying filters relating to human health risks and developing a sample set of sites for assessment by regional Superfund site assessment programs; and
- Evaluating results of the assessments to determine the usefulness of the project approach.

### III. Industry/Site Type Selection

#### Review of Existing Discovery Projects

OSRTI researched several site discovery projects implemented by EPA regional offices and state environmental programs to understand the scope, process, data sources, results, and lessons learned for these projects. All EPA regions have implemented some type of focused or targeted site discovery project in the past. OSRTI discussed state-lead projects with staff from environmental cleanup programs in IN, MI, NC, NY, and SC, most of whom presented summaries of their projects at recent EPA Superfund National Site Assessment Symposiums. Appendix A contains a list of discovery projects researched during this project.

Many of these projects focus on industrial sectors (e.g., dry-cleaning, manufactured gas, fertilizer, etc.). A small number focus on geographic areas where multiple industries were historically located. In general, these projects combined historical information (e.g., old trade journals and manufacturing books, Sanborn maps, etc.) with information from various environmental databases to generate a universe of candidate sites. Once potential sites were identified, site locations were refined and a screening process was used to identify sites needing further attention. Figure 1 lists sources of information used in these studies.

Figure 1: Tools Used in Other Discovery Projects to Identify Higher Risk Sites

Primary tools used to identify potential sites include:

- Previous studies (e.g., William Eckel 2001 study of unrecognized battery lead and babbitt & solder smelters);
- Historical literature (e.g., old industry books with company listings, manufacturing directories, trade journals, etc); and
- Federal and state database searches (e.g., USGS Mineral Resource Data System [MRDS]).

Secondary tools used to refine locations include:

- Sanborn maps;
- Library reference materials;
- Departments of Health;
- Local Fire Departments;
- City directories; and
- Property records.

#### Review of Recently Identified Higher Risk Sites

OSRTI also analyzed sites proposed or considered for proposal to the NPL from 2003 through 2004 with potential or confirmed human health risks. Of 29 sites reviewed, 12 sites (40 percent) were either smelters (6 sites) or dry cleaners (6 sites). The primary risk at smelters is generally lead in soils and surface water. For dry cleaners, it is generally PCE in soil and groundwater/drinking water.

After considering existing projects and the types of higher-risk sites currently being considered for NPL listing, OSRTI selected the smelting industry for this project.

#### **IV. Review of Source Materials**

OSRTI used the primary tools incorporated into previous studies to develop a universe of potentially high risk smelters.

##### Previous Smelter Studies

OSRTI reviewed a report prepared by William P. Eckel in April, 2001 titled, “Discovering Unrecognized Lead-Smelting Sites by Historical Methods” which was featured by ABC News on April 3, 2001. In his report, Mr. Eckel studied battery lead, babbitt metal, and solder smelters that were not in federal or state environmental databases. He used the Standard Metal Directory (1964) and Year Book of the American Bureau of Metal Statistics (1945-1973) as primary historical sources for generating a master list of secondary lead smelters. He cross-checked his master list against EPA and state databases, resulting in a final list of 464 potentially unknown smelters being included in his report. In September, 2001 OSRTI staff acquired and distributed a list of the 464 sites to regional EPA offices noting they may receive petitions to conduct preliminary assessments on some or all of these sites. Although no region reported receiving such a petition, some regions and their state counterparts did begin work assessing these sites.

OSRTI also contacted regional EPA offices for an update on implementation of any discovery projects involving smelters. Responses showed some form of managed smelter identification project was being performed by EPA Region 6 and jointly by: EPA Region 3 and PA; EPA Region 5, MI, and the City of Detroit; EPA Region 7 and MO; EPA Region 8 and UT; and EPA Region 9 and AZ. Both the EPA Region 3/PA and EPA Region 5/MI/Detroit projects were based on potential smelters included in Mr. Eckel’s report. One of the challenges noted during these previous projects was finding the location of potential smelters using historical documents since address information was often incomplete.

##### Historical Literature

OSRTI limited its independent research of older source documents since these were identified in previous studies. Examples of historical literature include:

- Industry trade journals;
- Trade associations;
- Manufacturing and industrial directories from the Departments of Labor and Commerce;
- Old phone books;
- Sanborn Maps;
- Library reference materials;
- Collections of aerial photos;
- Geological survey reference documents; and
- Web-based searches.

### Federal and State Database Searches

Previous projects highlighted use of state and county/city databases to identify potential smelting locations. Some states consider their information proprietary so EPA regional offices were not always afforded access to these databases. OSRTI did not pursue state database information for this project given time and funding constraints. OSRTI did gather information on potential EPA, USGS, BLM, and other federal agency databases that might contain useful information on potential smelting activities. OSRTI also performed simplified queries to determine how many of the 464 sites included in Mr. Eckel's list had been entered into EPA's CERCLIS database. Preliminary data queries indicated a significant number of the 464 sites were likely not in CERCLIS.

After considering previous projects and available data, OSRTI decided to use the 464 sites listed in Mr. Eckel's report as the master list of potential smelter sites for this project for the following reasons:

- The 464 sites were reportedly smelters which was the industrial sector selected for this project;
- These sites were generated based on historical literature searches; and
- The sites were already cross-checked against EPA and state databases, although several years have elapsed since the list of sites was made public;
- cursory research did not find many of the sites in CERCLIS.

## **V. Refinement of Source Material**

In September, 2005 OSRTI began refining the source list of 464 potential smelters using the following process:

### Step 1: Reformatting the Source List

OSRTI received the source list of sites in both Microsoft Word and Adobe Portable Document Format (PDF) electronic files. The PDF file required an Optical Character Recognition (OCR) process to convert the image file to text. Each site record would require review to determine whether numbers and letters were converted appropriately. The large number of records in the source file made this option infeasible. The Word file contents were copied and parsed in a Microsoft Excel file enabling extraction of site names and addresses for use in researching the sites in national databases.

### Step 2: Eliminating Sites in EPA Databases

OSRTI considered various methods of cross-checking the 464 source sites against current EPA databases. OSRTI did consider cross-checking state databases; however, the costs to research individual state databases eliminated this step from further consideration. Internet search engines (e.g., Google) were tested using a few sites but the results required significant time to go through and determine involvement of a government cleanup program.

OSRTI ultimately used EPA's CERCLIS and Envirofacts databases to search for sites on the source list. Envirofacts does not contain records on over 30,000 sites archived from CERCLIS or records on sites pre-screened from CERCLIS entry or otherwise not included in the CERCLIS

active site inventory. Envirofacts includes access to EPA's Facility Registry System (FRS) which identifies facilities that are regulated or are of environmental interest to EPA programs or delegated states. Slow server response time had a direct impact on OSRTI's searching capability within Envirofacts. It may prove more effective to submit a set of sites to EPA's Office of Environmental Information (OEI) to conduct an automated search against Envirofacts data tables, although this will prevent direct control of the search.

OSRTI conducted a direct search of sites in CERCLIS as follows:

First, several small data sets of sites were created by searching CERCLIS for all sites with key words (e.g., "smelter", "lead", and "battery") and common cities found on the source list. The smaller, more manageable data sets facilitated matching CERCLIS sites with those on the source list. Archived sites and invalid sites such as those pre-screened from CERCLIS entry were included in the data sets.

Then, for sites not found in the small data sets, OSRTI conducted a more labor-intensive site-by-site search in the CERCLIS and Envirofacts databases using information supplied on the source list.

Site name and location matching is not straightforward since source lists often contain old, incomplete, or similar but not exact site names and addresses. OSRTI established the search criteria shown in Figure 2 to classify sites on the source list as matching, potentially matching, or not matching sites in CERCLIS/Envirofacts.

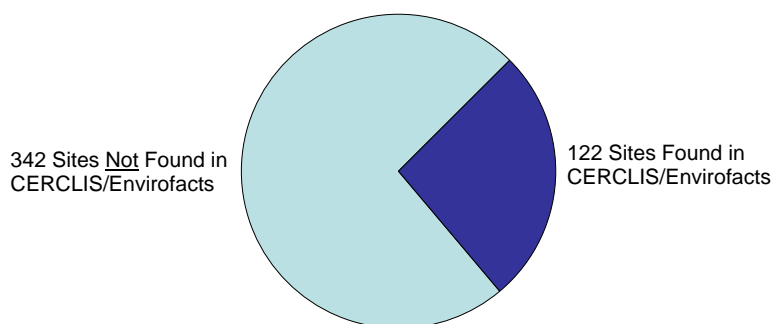
Figure 2: Matching Sites on a Source List with a National Database

Site Name	Site Location	Matching Site?
Same	Same	Yes
Same	Different, but < 100 feet apart	Yes
Same	Different, but 100-500 feet apart	Potential
Same	Different, over 500 feet apart	No
Same	Source location missing street number or street name	Potential (if supported by other source data)
Different	Same	Potential
Different	Different, or source location missing street number or street name	No

Based on searching these databases, OSRTI found 122 of the 464 source sites either matched or potentially matched sites listed in CERCLIS or Envirofacts. Figure 3 shows this breakout.



Figure 3: Database Research Results on 464 Source



### Step 3: Refining Locations

OSRTI planned to generate a sample of the 342 source sites not in CERCLIS or Envirofacts by adding geographic, demographic, and other environmental data to each site, then applying threshold criteria to derive a manageable number of sites for regional assessment. Spatial data (latitude and longitude coordinates) were required to add in appropriate demographic data; however, the addresses for 78 of the 342 sites lacked detail necessary to obtain the spatial data. Of these 78 unmatched sites, 45 had no address information, 14 had vague or incomplete addresses, and 19 had invalid or unrecognizable addresses.

For the remaining 264 sites on the source list with good address data, OSRTI used ArcGIS and StreetMap software to geo-code each site (assign latitude and longitude coordinates). This process required addresses to be in consistent formats (i.e., street number, street, city, state, zip code) so some modifications were made to the addresses. Slight variations in spelling or presentation were accommodated by setting the matching sensitivity of the geo-coding process to 80 percent. For example, this process allowed a site on the source list shown as being at 1939 E. Sargeant to correctly be matched with the Census-based address of 1939 E. Sergeant.

### Step 4: Applying Filtering Criteria

OSRTI researched nationally available data for use in developing a manageable sample of sites from the set of 264 geo-coded sites. Figure 4 lists the variables researched on a national basis which focused on the types of factors used to determine if a site was eligible for NPL listing.

Figure 4: Potential Filtering Variables

- ✓ Population on and near site (including subsets of student and worker populations);
- ✓ Schools and daycare facilities within HRS distance limits;
- ✓ Surface water intakes within HRS distance limits (if available);
- ✓ Surface water protection areas;
- ✓ Municipal ground water wells;
- ✓ Wellhead protection areas;
- ✓ Sole source aquifers;
- ✓ Fish consumption advisories;
- ✓ Karst soil areas;
- ✓ USGS National Water Quality Assessments;
- ✓ USGS Groundwater Site Inventory data;
- ✓ National Water Well Association data;
- ✓ Years of operation;
- ✓ Size of property;
- ✓ Capacity of smelter;
- ✓ Number of employees; and
- ✓ Amount of waste produced.

Most of the data was not readily available on a national basis or it was not available in a format consistent with the geo-coded data. Individual student and worker population data were available only for a limited number of municipalities. Data on municipal ground water wells and surface water intakes are no longer available to the public due to homeland security concerns, and OSRTI was not able to obtain this data directly from the EPA data sponsor in a timely fashion. Fish consumption data are available but the data require reformatting and OSRTI was unable to obtain this in a timely fashion. The listing of schools reported included the traditional elementary, secondary, and senior high schools, along with beauty schools, automotive schools, theater schools, and other vocational schools.

After review of the available filter options presented in Figure 4, OSRTI added resident population from the 2000 Census and the number of schools within ¼ mile to each of the remaining 264 sites as follows:

- Using ArcGIS software, a ¼ mile buffer was drawn around each of the 264 geo-coded source sites;
- Census block data obtained from the 2000 Census and school location data were overlain on the map with these buffered sites; and
- The intersection function within ArcGIS was used to find the population and number of schools within each ¼ mile buffer.

OSRTI analyzed the results to determine thresholds that would yield a manageable sample of sites. The burden placed upon regional site assessment programs was considered, and OSRTI decided to limit the number of sites in the sample for any one region to no more than five of the source sites. After conducting a number of “what-if” scenarios, OSRTI generated a sample of 31

source sites that had at least one school within ¼ mile of the site, then sorting the sites by highest population within ¼ mile of the site. Where regions had more than five sites with schools nearby, the top five sites based on population were selected for inclusion in the sample. Figure 5 presents a summary of site selection beginning with the source list and ending with the sampled data set. Appendix C displays the 31 sites included in the sample.

Figure 5: Refinement from Source List to Sample Data Set

Total Sites on Source List	33	120	71	24	128	21	16	3	41	7	464
Sites in CERCLIS or Envirofacts	6	17	13	8	56	6	2	2	10	2	122
Sites Not in CERCLIS/Envirofacts	27	103	58	16	72	15	14	1	31	5	342
Sites Without Valid Addresses	2	15	16	9	18	5	4	0	6	3	78
Sites With Valid Addresses	25	88	42	7	54	10	10	1	25	2	264
Sites with No Schools w/n 1/4 Mile	19	55	22	4	29	9	9	0	18	2	167
Sites with Schools w/n 1/4 Mile	6	33	20	3	25	1	1	1	7	0	97
Sites Selected for Sample	5	5	5	3	5	1	1	1	5	0	31
Range of Population w/n Sample	1,098 to 4,339	7,883 to 24,350	3,878 to 5,083	608 to 2,394	3,212 to 6,010	1,043	249	1,068	235 to 3,572	n/a	235 to 24,350

## VI. Assessment Results

On November 22, 2005, OSRTI submitted the sample sites to EPA regional offices for evaluation to determine if any have current human health risks. Regions conducted pre-CERCLIS screenings at these sites to determine whether the sites were already being addressed under other state cleanup programs and whether further Superfund assessment and/or Federal cleanup work was warranted. Based on preliminary analysis, none of the sample sites appears to present human health threats requiring Superfund remedial cleanup. No further assessment appears necessary under any program at 20 of the 31 sample sites. Six of the 31 sites were already being handled under other state cleanup programs or by private parties at the time of the sample. Five of the 31 sites show no imminent human health risks and were already included in an existing regional project to study all of the sites on the master list.

Locating these sites proved challenging. Several sites were listed on streets that no longer exist or have since been renamed. In some cases, the streets existed, but there was no evidence that a smelting company was ever located there. In other cases, the location was likely that of the smelter business office and not of the actual smelting process itself. Many of the properties at the 31 sampled sites have undergone some type of industrial and commercial development leaving pavement, buildings, and roads now covering the ground with no or limited exposure to soils.

For some sites where evidence of smelting operations was confirmed, attribution of any potential contamination is complicated by changes in property ownership and use over time. For example, some properties have since become automotive junkyards and metal scrap and recycling yards.

Although assessments are not complete at all 31 sites yet, it appears most of those with some type of cleanup needed are already being handled under a state cleanup program (e.g., state Brownfields or Voluntary Cleanup Program). One site (Loewenthal, Region 5) may require a Superfund removal action to address a localized area of lead contamination. As common with

most smelter sites, most of the contamination concerns at these sites involved lead in soils. Most of the sampling conducted (or planned) was for lead contamination in residential yards and parks.

## **VII. Conclusion**

Findings demonstrate a centralized approach to finding unreported sites may not result in the identification of any NPL caliber sites posing high human health threats that are not being addressed under a Federal, state, or tribal environmental program. OSRTI's role in any future site identification project should be limited to managing the refinement and regional distribution of nationally-based site listings with potential Federal Superfund interest. Periodically, EPA receives or becomes aware of information showing sites throughout the nation that may need Superfund assessment and/or cleanup. This information may originate from private sources (e.g., Mr. Eckel's list of potential smelters), news media (e.g., USA Today's September 6, 2006 article on sites posing potential radioactive contamination), and other federal agencies (e.g., U.S. Department of Energy's list of sites in the Formerly Utilized Sites Remedial Action Program). If EPA decides these sites need Superfund assessment, OSRTI can refine the information by:

- converting original site listings from native formats (e.g., word processing files, hard copy documents, etc.) to formats that enable efficient searching of the sites in national databases;
- conducting the actual searches of large numbers of sites in national environmental databases;
- geo-coding potential site addresses; and
- appending demographic data (e.g., population and schools) that may be useful in helping EPA regions prioritize the sites for pre-CERCLIS screening work.

Upon receipt of the refined site information, each EPA regional office can then incorporate and prioritize these sites within their existing site assessment workloads.

## Appendix A

### Site Discovery Projects Researched for OSRTI's Site Identification Project

# Appendix A – Site Discovery Projects Researched for OSRTI’s Site Identification Project

----- For Internal EPA Use Only -----

Organization	Project	Project Lead
NC	Geographically-based research on industries associated with NPL sites, including all types of companies involved in the production process. Started with fertilizer sites using old chemical engineering and other books from state and university libraries. Checked SIC codes, Sanborn and USGS topography maps, and other state media programs, then focused on longest operating facilities first. Performed drive-by assessments on potential sites as time permits when investigating nearby CERCLIS sites. Also looking at bleach manufacturers, textile dyeing and finishing companies, and other industry sectors.	Jeanette Stanley (NC)
NY	Dry cleaners using Census SIC data, Yahoo web searches, and Yellow Pages telephone books. Used Arcview GIS software to map site zip codes against location of aquifers.	Matt Dunham (NY)
SC	Geographically-based research on specific industries (super phosphate fertilizer manufacturers, manufactured gas plants, wood treaters, metal plating, gold mines, pesticide manufacturers/blenders, and closed textile mills). Used old industrial directories and other books (e.g., 1902 Super-Phosphate Fertilizer book), Sanborn maps, Yahoo searches, and trade publications. Found early GIS work was partially mitigated by use of Sanborn fire insurance maps, and could use Sanborn maps to simultaneously identify potential sites across multiple industries.	Jonathan McInnis (SC)
IN	Geographically-based project focusing on areas where fish advisories have been issued, then researching facilities in the area that may have contributed to potential contamination.	Mark Jaworski (IN)
MI / Detroit / EPA Reg. 5	Detroit Lead Smelter Site Assessment Project is a joint project led by MI Department of Environmental Quality in cooperation with the City of Detroit and EPA Region 5 to investigate potential smelters listed in or near Detroit according to William Eckel’s April, 2001 report titled “Discovering Unrecognized Lead-Smelting Sites by Historical Methods”.	Joe Walczak (MI), Jan Pels (EPA)
EPA Reg. 3	EPA Region 3, ATSDR, and Pennsylvania Department of Health are working together on investigating all potential smelter sites listed in Pennsylvania according to William Eckel’s April, 2001 report titled “Discovering Unrecognized Lead-Smelting Sites by Historical Methods”.	Robert Lausch (EPA), John Rajkowski (EPA)
EPA Reg. 6	EPA Region 6 used a 1925 foundry directory in conjunction with Sanborn maps to identify potential smelters in TX.	Brenda Cook (EPA), Jon Rinehart (EPA)
EPA Reg. 7	EPA Region 7 and the MO Department of Natural Resources are systematically investigating over one hundred former smelter areas. MO developed extensive database of smelter information using original card index of mined sites compiled in the 1950’s, USBM MILS database [which has since been absorbed into the USGS Mineral Resource Data System (MRDS)], aerial photos, USGS quadrangle maps with mine notations, and MO geological survey reference documents. Used maps of mine and smelter locations along with other data to identify and prioritize areas of study.	Jamie Bernard-Drakey (EPA)

# Appendix A – Site Discovery Projects Researched for OSRTI’s Site Identification Project

----- For Internal EPA Use Only -----

EPA Reg. 8	EPA Region 8 and Utah Department of Environmental Quality began conducting the Salt Lake County Smelter Initiative in 1992. The project focused on identifying and assessing areas surrounding closed smelters in Salt Lake County, UT. Used historical mining books to identify smelter locations.	Luke Chavez (EPA)
EPA Reg. 9	EPA Region 9 and AZ Department of Environmental Quality used an old mining book and worked with the AZ Department of Mines and Minerals to research potential smelter sites in AZ. Research was complicated by incomplete locations and company names.	Dawn Richmond (EPA)
Private Citizen	William P. Eckel produced a report in April, 2001 titled, “Discovering Unrecognized Lead-Smelting Sites by Historical Methods”. He researched battery lead, babbitt metal, and solder smelters using the Standard Metal Directory (1964) and Year Book of the American Bureau of Metal Statistics (1945-1973). He cross-checked his findings against EPA and state databases, resulting in a final list of 464 potentially unknown smelters included in his report. In September, 2001 OSRTI staff acquired and distributed a list of the 464 sites to regional EPA offices noting they may receive petitions to conduct preliminary assessments on some or all of these sites. Although no region reported receiving such a petition, some regions and their state counterparts did begin work assessing these sites.	William P. Eckel (now with EPA)

## Appendix B

### 464 Potential Smelters from Source List



# Appendix B - 464 Potential Smelters from Source List

----- For Internal EPA Use Only -----

Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
<b>Potential Battery Lead Smelters</b>							
1	MA	001		Boston 1895-1900 v.2 #73	Harcon Corp.	41 Hilton St.	Boston
1	MA	002			Harcon Corp.	41 Bradston St.	Boston 02118
1	MA	003		Chelsea 1911 #13	Vulcan Smelting Works	289 Third	Chelsea 02150
1	MA	004		Malden 1929 #63	Richards Corp. [state ID# 3-0018464]	356 Commercial	Malden 02148
1	MA	005		Medford #68	David Feinburg Co.	Fifth St.	Medford 02155
1	MA	006			Arcade Smelting & Refining Corp. Victory Plant	--	Squantum
1	MA	007		Boston 1895-1900 v.1 #39, 40	U.S. Smelting Refining & Mining Co. [office?]	75 Federal St.	Boston 02110
1	MA	008		Boston 1895-1900 V.2 #65, 67	National Lead (of Mass.) A/k/a Salem Lead [MAD980520761]	800 Albany St.	Boston 02119
2	NJ	009		Elizabeth 1922-3 v.1 #43	Magnolia Metal Co. A/k/a Bayway Smelting	120 Bayway	Elizabeth 07202
2	NJ	010	Y		Balbach Smelting & Refining Co. a/ka PVSC sanitary LF?	Wilson & Doremus	Newark 07105
2	NJ	011			Barth Smelting Corp.	9 Fredon St.	Newark 07105
2	NJ	012			Eagle-Picher Lead Co.	--	Newark
2	NJ	013		Newark 1908-9 v.2 #80, 87	United States Smelting Refining & Mining Co.	364-372 Elizabeth Ave.	Newark 07112
2	NJ	014			Hudson Smelting & Refining Co.	85-87 Hyatt Ave.	Newark 07105
2	NJ	015		Newark 1908-9 v.5 # 19	Hudson Smelting & Refining Co.	576 Wilson Ave. Harvey Newark trailer 600 Wilson [NJD986610905]	Newark 07105
2	NJ	016			Metal Reduction Corp.	4001 Dell Ave.	North Bergen 07047
2	NJ	017			Metals Disintegrating Co.	--	Verona
2	NJ	018			Metals Disintegrating Co.	Morris Ave.	Townley
2	NY	019		Brooklyn 1904-8 v.4 #32	City Metal Smelting & Refining Co.	61 N. 13th St.	Brooklyn 11211
2	NY	020		Brooklyn 1904-8 v.1 # 27, 28	Columbia Smelting & Refining Works	98 Lorraine	Brooklyn 11231
2	NY	021	Y		Consolidated Smelting	25 Provost Ave.	Brooklyn 11222
2	NY	022		Brooklyn 1904-8 v. 4 # 46, 54	Fox & London Inc.	21 Provost St.	Brooklyn 11222
2	NY	023		Brooklyn 1904-8 v.1 # 42, 55	Glaser Lead Co.	21-31 Wyckoff Ave.	Brooklyn 11237
2	NY	024		Brooklyn 1904-8 v.4 # 51, 52, 53	Kahn Bros. Smelting	785 Humboldt St	Brooklyn 11222
2	NY	025		Brooklyn 1904-8 v. 4 # 53, 63	Lee-Zurich Alloys Corp. a/k/a Kelly Metal corp.	335 Calyer	Brooklyn 11222
2	NY	026	Y		United American Metals	970 Meeker St.	Brooklyn 11222
2	NY	027		Brooklyn 1904-8 v.4 #44, 45, 53	United American Metals	200 Diamond	Brooklyn 11222
2	NY	028			Lake Erie Smelting Corp.	29 Superior	Buffalo
2	NY	029		Buffalo 1889-1900 v.3 # 310, 312	Michael Hayman	856 E. Ferry	Buffalo 14211
2	NY	030		Buffalo 1889-1900 v.2 3 120, 130	National Lead A/k/a Cornell Lead Co.	116 Oak	Buffalo 14203
2	NY	031	Y	Buffalo 1889-1900 v.3 # 258, 223	Reliance Lead, Solder & Babbitt Co. Inc.	399 Genessee St.	Buffalo 14204
2	NY	032		Buffalo 1889-1900 v.5 #474	Samuel Greenfield Co.	31 Stone	Buffalo 14212
2	NY	033		Depew 1923 # 2	Magnus Metals Div.	779 Walden Ave.	Depew (Buffalo) 14211
2	NY	034		NYD9805344999	Columbia Smelting & Refining Works Inc.	38-06 Review Ave	Long Island City 00000
2	NY	035			Goldsmith Bros. Smelting & Refining	43-20 12th St.	Long Island City 00000
2	NY	036			Balbach Smelting & Refining Co.	63 Park Row	New York 10038
2	NY	037	New York 1903-19 v.4 # 47		Duquesne Smelting Co.	18 E. 48th St.	New York 10017
2	NY	038			Magnolia Metal Co.	75 West	New York 10006
2	NY	039			Tottenville Copper Co.	Foot of W. 29th	New York 10001
2	NY	040			A.M.A. Div. of The Ore and Chemical Corp.	P.O. Box 63	Oceanside

# Appendix B - 464 Potential Smelters from Source List

----- For Internal EPA Use Only -----

Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
2	NY	041			A.M.A. Corp.	--	Rockville Centre
2	NY	042			Nassau Smelting & Refining Co.	603 W. 29th	Tottenville 10001?
3	MD	043		Baltimore 1914-5 v.4 # 398	Industrial Metal Melting	108 E. Barney	Baltimore 21230
3	MD	044		Baltimore 1914-5 v.4 # 368, 370	Southern Smelting & Refining Works	200 Key Highway	Baltimore 21225
3	PA	045		Carnegie 1901 @ map ref. 7 ?	Hammond Lead Products	40 E. Main	Carnegie 15106
3	PA	046		Conshohocken 1886 #3 ?	Schuykill Valley Metals	--	Conshohocken
3	PA	047		Hamburg 1927 # 5 ?	Price Battery Corp.	--	Hamburg
3	PA	048			Penn Reduction & Refining Co.	--	New Castle
3	PA	049			American Alloys Co.	1939 E. Sargeant	Philadelphia 19125
3	PA	050		Philadelphia 1916-29 v.11 # 1007, 1008	Bers & Co. Div. of Gould Inc. [known?]	Ashland & Lewis	Philadelphia
3	PA	051			Electric Storage Battery	42 S. 15th St.	Philadelphia 19102
3	PA	052		Philadelphia 1916-29 v.13 # 1243, 1244, 1250, 1253	Electric Storage Battery A/k/a Remington Rand Univac PAD980539621] A/k/a Technital Inc 1952 E. Allegheny [PAD002300556]	19th & Allegheny	Philadelphia 19140
3	PA	053			Federated Metals Corp. [office?]	1700 Walnut	Philadelphia 19103
3	PA	054		Philadelphia 1916-29 v.10 # 963	Federated Metals Corp.	Richmond & Hedley Streets	Philadelphia 19137
3	PA	055		PAD987358629 / 0304607 PAD088789144 / 0305001	Girard Smelting & Refining Co. a/k/a Halpern, I., Bros. & Co.	Milnor & Bleigh, Tacony Station	Philadelphia 19136
3	PA	056		Philadelphia 1916-29 v. 14 # 1371, 1372	Halpern Metals Co.	5010 Lancaster Ave.	Philadelphia 19131
3	PA	057		PA0000569244 / 0305001 PAD981035660 / 0301870	John T. Lewis & Bros. a/k/a National Lead a/k/a United Metals [PAD981035660]	2607 E. Cumberland	Philadelphia 19125
3	PA	058		Philadelphia 1916-29 v.8 # 753	Jos. Rosenthal's Sons	1837 N. 2nd	Philadelphia 19122
3	PA	059		Philadelphia 1916-29 v.8 # 753	Jos. Rosenthal's Sons	190-2 W. Berks St.	Philadelphia 19122
3	PA	060	Y		Ladenson Metals Co. a/k/a Franklin Smelting & Refining [PAD002280725]	Castor Ave. E. of Richmond	Philadelphia 19134
3	PA	061			L. Goldstein's Sons Inc.	Wissinoming Ave. & Knorr	Philadelphia 19135
3	PA	062		Philadelphia 1916-29 v.10 # 971, 972	Metro Smelting Co.	Ontario & Bath Sts	Philadelphia 19134
3	PA	063		PAD981106099 / 0304711	Morgan Smelters Inc.	Hedley St. E. of Richmond	Philadelphia 19137
3	PA	064		Philadelphia 1916-29 v.10 # 956	North American Smelting	Tioga & Edgemont	Philadelphia 19134
3	PA	065		Philadelphia 1916-29 v.10 # 984	Pennsylvania Smelting & Refining Co.	Ontario & Caspar	Philadelphia 19134
3	PA	066		Philadelphia 1916-29 v.10 # 925, 926	Sall, George, Metals Co.	2255 Butler	Philadelphia 19137
3	PA	067		Philadelphia 1916-29 v.10 # 988	Thos. F. Lukens Metal Co. [PAD987308707]	2917 E. Hedley	Philadelphia 19137
3	PA	068		Philadelphia 1916-29 v.24 # 2357, 2359	U.S.Smeltering Works	N American & W Bristol	Philadelphia 19140
3	PA	069		Pittsburgh 1924-7 v. 2 # 209, 210, 217	Duquesne Smelting Corp.	50 33rd St	Pittsburgh 15201
3	PA	070		Pittsburgh 1924-7 v.2 # 229, 230, 231	Federated Metals Div. ASARCO	615 Gross	Pittsburgh 15224
3	PA	071		Pittsburgh 1924-7 v.2 # 223	Pitt Metals Co. Inc. a/k/a Murdoch, M. & Co.	4314 Main	Pittsburgh 15224
3	PA	072		Pittsburgh 1924-7 v.4 # 488, 489, 490, 496	Pittsburgh Smelting & Refining Co.	100 W. Elizabeth	Pittsburgh 15207
3	PA	073		PAD990753089	Bowers Battery & Spark Plug Co.	--	Reading
3	PA	074			Euston Lead Co. Affil. Metals Refining Co. Hammond IN	500 Pennsylvania Ave.	Scranton 18509
3	PA	075			Laramie Metal Co.	2711 E. Market	York 17402
3	PA	076	York 1908 # 20, 22		Laramie Metal Co.	44 W. Market St.	York 17401
4	FL	077		Jacksonville 1913 v.2 # 249, 250	Florida Smelting Co.	5800 Buffalo Ave	Jacksonville 32208
4	FL	078		Jacksonville 1913 v.2 # 202, 215	Florida Smelting Co.	17th & Evergreen	Jacksonville 32206
4	FL	079		Jacksonville 1913 v.2 # 237, 239	Florida Smelting Corp.	2726 Evergreen Ave	Jacksonville 32206

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Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
4	FL	080		Miami 1921-4 v.1 # 169, 170	Russell, Roberts Metals Inc.	5761 NW 37th Ave	Miami 33142
4	FL	081		Miami 1921-4 v.2/3 # 135, 142, 177	Pure Lead Products Co.	3450 NW North River Drive	Miami 33142
4	FL	082		FLD004092839 / 0400538	Gulf Coast Lead Co. [FLD984229773]	110th Ave. & N. 56th St.	Tampa 33617
4	GA	083			Evans Metals Co. [known?]	740 Lambert Dr NE	Atlanta 30324
4	GA	084		Atlanta 1911-25 v. 4 # 452, 453, 461, 464, 470	Evans Metals Co.	Piedmont Road NE & Seaboard Airline	Atlanta
4	GA	085		Atlanta 1911-25 v.2 # 156	Miller Metal Co.	141 Fort St.	Atlanta 30312
4	GA	086			Miller Metal Co.	73 Mills, NW	Atlanta 30328
4	KY	087			National Lead	--	Louisville
4	NC	088			Moore Smelting Co.	--	Charlotte
4	NC	089		NCD003151651 NCD049774375 / 0402783 NCD066309119 / 0402850	Willard Smelting Co.	Griffith St.	Charlotte 28203
4	NC	090			Winston Lead Smelting	--	Winston-Salem
4	TN	091		TND004048690	General Smelting & Refining Co. [known?]	--	Nashville
5	IL	092			Ablin Bros.	3108 S. Robinson	Chicago 60608
5	IL	093		Chicago 1905-51 v. 7 # 90	Bruco Co.	1416 W. 12th	Chicago 60608
5	IL	094			Cohn, L.A. & Bro. Inc.	5429 W. Roosevelt	Chicago 60644
5	IL	095		Chicago 1905-51 v.1 #21, 22, 30	Eagle-Picher Lead Co. [office?]	134 N. LaSalle	Chicago
5	IL	096			Federated Metals Corp.	41st & Wallace	Chicago 60609
5	IL	097		Chicago 1905-51 v.1 # 25, 26	Goldsmith Bros. Smelting & Refining Co. [office?]	111 N. Wabash Ave	Chicago
5	IL	098		Chicago 1905-51 v.22 # 50, 51	Illinois Smelting & Refining Co. [office?]	3710 S. California Ave.	Chicago 60632
5	IL	099		ILP000509112	Imperial Type Metal Co.	1800 S. 54th Ave	Chicago 60804
5	IL	100			Loewenthal Metals Corp.	947 West Cullerton	Chicago 60608
5	IL	101			Michigan Smelting & Refining Co. [office?]	410 N. Michigan Ave	Chicago
5	IL	102		ILP000509216	National Lead Co.	1607 Howard St.	Chicago 60626
5	IL	103		Chicago 1905-51 v.1 #52, 53, 54	Non-Ferrous Metals Inc. [office?]	141 W. Jackson Blvd	Chicago
5	IL	104		ILN000508196	Eagle-Picher Co.	--	East St. Louis
5	IL	105			Lewin Metals Div. Cerro de Pasco Corp.	Monsanto P.O.	East St. Louis
5	IL	106		ILN000508170 / 008170	ASARCO	--	Federal
5	IL	107		ILD98983208 / 0500520	Continental Smelting & Refining Co.	7753 47th	Lyons 60534
5	IN	108			Magnus Metals Div. National Lead [known?]	--	Beech Grove
5	IN	109			Eagle-Picher Co.	--	East Chicago
5	IN	110			International Lead Refining Co. (Anaconda Copper)	--	East Chicago
5	IN	111			International Smelting & Refining Co.	--	East Chicago
5	IN	112		INP000508601 / 0508601	PB Co. [known?]	--	Fort Wayne
5	IN	113		INP000508552	Hammond Lead Products	5231 Hohman No. Indiana Public Service 5265 Hohman Ave [IND000198598]	Hammond 46320
5	IN	114		IND005069851 / 0501240	Metals Refining Co. Inc. (Glidden)	1723 Summer St.	Hammond 46320
5	MI	115		Detroit Free Press: opened 1955	Detroit Lead Co. (under remediation as of 2/4/03) Avg soil Pb 1.1% Max. soil Pb 16%	13535 Helen Ave.	Detroit 48212
5	MI	116		Detroit Free Press: built 1941	Detroit Lead Pipe Works	7001 Lyndon Ave.	Detroit 48238
5	MI	117		Detroit Free Press: 1950 map shows smelter	Federated Metals Div. ASARCO [found by FOIA]	11030 Russell St.	Detroit 48211

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Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
5	MI	118		Cadillac assembly plant @ 1-94 Detroit Free Press: 1928-9 city directory shows smelting & refining company	Michigan Smelting & Refining Co. Div. of Bohn Aluminum & Brass Corp.	7885 Jo. Campau Av	Detroit
5	MN	119			Federated Metals Corp.	--	Minneapolis
5	MN	120		MNP005085300	Northwestern Smelting & Refining Co. a/k/a Midwest Steel Supply Co. [MND02290748]	1328 N. 2nd	Minneapolis 55411
5	MN	121		MNP000508532	General Smelting & Refining Co.	--	St. Paul
5	MN	122		MNP000508533	National Lead	--	St. Paul
5	MN	123		St Paul 1903-4 v.5 # 609	St. Paul Lead Co.	109 E. Chicago Av	St. Paul 55110?
5	MN	124		St Paul 1903-4 v.5 # 645, 655	St. Paul Smelting & Refining Co.	243 Starkey	St. Paul 55107
5	OH	125		Cincinnati 1922 v.2 #52, v.1 # 1 ?	American Compressed Steel	900 E. Front	Cincinnati 45203
5	OH	126		Cleveland 1912-3 v.6 # 86, 106, 107	H & L Metal Co.	3360 E. 79th	Cleveland 44127
5	OH	127		Cleveland 1912-3 v.2 # 4, 7	Koblitz-Kohn Co.	2380 Canal Rd.	Cleveland 44113
5	OH	128		Cleveland 1912-3 v.6 # 86	Lockport Lead Co.	7700 Bessemer Ave	Cleveland 44127
5	OH	129		Cleveland 1912-3 v.11 # 14, 15	Metals Refining Co.	11001 Madison Ave.	Cleveland 44102
5	OH	130		Cleveland 1912-3 v.6 # 5, 6	The Atlas Metal Co.	2651 E. 75th St.	Cleveland 44104
5	OH	131		Cleveland 1912-3 v.2 #92, 96	Tyroler Metals Inc.	5305 Sweeney Ave.	Cleveland 44127
5	OH	132		Columbus 1921-2 v.2 # 167	Edlow Lead Co.	729 Bank	Columbus 43206
5	WI	133			Allied Smelting Corp. a/k/a Wisconsin Lead Co.	5116 W. Lincoln Ave	Milwaukee 53219
5	WI	134		Milwaukee 1894 v.1 # 78, 80 v.3 # 319	National Lead	808 N. 3rd	Milwaukee 53203
6	LA	135			Dixie Lead Co.	P.O. Box 1775	Baton Rouge
6	LA	136			National Lead	--	New Orleans
6	TX	137			Cedergren Metals	P.O. Box 5562	Dallas
6	TX	138		Dallas 1921-7 v.1 # 51, 52	Commercial Metals Co.	512 S. Akard	Dallas 75202
6	TX	139		Dallas 1921-7 v.1 # 96	Commercial Metals Co.	Latimer at Corinth	Dallas 75215
6	TX	140		TXD980626279	National Lead Inc Storage Lead Alloys [TXD980626279]	959 Terminal	Dallas 75202?
6	TX	141			Gachman Metals Co. [active]	2600 Shamrock Ave	Fort Worth 76107
6	TX	142			East Texas Lead Co.	P.O. Box 1032	Henderson
6	TX	143			Gulf Coast Lead [known site]	--	Houston
6	TX	144			Wilkinson Bros. Smelting	1120 Ursula	Laredo
6	TX	145		San Antonio 1911-24 v.4 # 382	Brunner Co.	1913 S. Flores	San Antonio 78204
6	TX	146		San Antonio 1911-24 v.4 #425	Trottnr Iron & Metal	1105 S. Medina	San Antonio 78207
6	TX	147		Waco 1926 v.1 # 8, 12	Lipshitz Smelting & Refining Works [TXD027194315]	101 Franklin	Waco 76701
7	MO	148		Fredericktown 1927 # 12, 15	St. Louis Smelting & Refining Div. (National Lead)	P.O. Box 351	Fredericktown
7	MO	149			Evans Wallower Lead Co.	--	Joplin
7	MO	150		MOD007158157 / 0702548	Kansas City Smelting & Refining Co. (Eagle-Picher)	2223 Guinotte Ave.	Kansas City 64120
7	MO	151			Price Metal Refining Co.	Guinotte & Flora	Kansas City 64106
7	MO	152	Y?		Eagle-Picher Lead Co.	305 St. Clair	St. Louis
7	MO	153			Federated Metals Div. ASARCO	4041 Park Ave. Mozel Chemical Products 4003 ParkA ve [MOD006270037] Zone, CJ Mfg Co 3957 Park Ave [MOD006268015]	St. Louis 63110
7	MO	154		St Louis 1903-16 v.1 # 66, 92	Lewin-Mathes Corp. Div. of Cerro de Pasco Corp. [office]	1111 Chouteau Ave	St. Louis 63102
7	MO	155		St Louis 1903-16 v.2 # 17	Magnus-Farley Industries (National Lead) [office?]	722 Chestnut St.	St. Louis 63101
7	MO	156		St Louis 1903-16 v.8 # 89	Theo. Hiertz Metal Co.	8011 Alaska Ave.	St. Louis 63111

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Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
7	NE	157		Lincoln 1903 # 57, 58, 67, 80	The Northwestern Metal Co	900 T St.	Lincoln 68508
7	NE	158			Western Smelting & Refining Co.	--	Omaha
9	AZ	159			Morris P. Kirk & Son (National Lead)	--	Phoenix
9	CA	160		CAN000906007 / 0906007	Morris P. Kirk & Son (National Lead)	4050 Horton	Emeryville 94608
9	CA	161			Morris P. Kirk & Son (National Lead)	--	Fresno
9	CA	162		Inglewood 1923 #14?	Atlas Lead Co.	--	Inglewood
9	CA	163		CA0001368067 OR CA0001368091	Aaron Ferer & Sons	2300 E. 11th	Los Angeles 90021
9	CA	164		CAD008292435	Berg Metals Corp.	2640-80 Long Beach Ave.	Los Angeles 90058
9	CA	165			Electric Babbitt Metals.a/k/a Los Angeles Smelting Co.	10047 S. Alameda	Los Angeles 90002
9	CA	166			Federated Metals Div. (ASARCO) [found by FOIA]	4010 E. 26th St. Vigoro Industries 4060 E 26th [CAD052276169]	Los Angeles 90023
9	CA	167			Federated Metals Div. (ASARCO)	1217 E. 26th	Los Angeles 90011
9	CA	168		CA0001368091	International Lead Co.	415 Molino St.	Los Angeles 90013
9	CA	169		San Francisco 1913-5 v.1 # 38	Bunker Hill Co.	660 Market	San Francisco 94104
9	CA	170		San Francisco 1913-5 v.2 # 134	Electric Smelting Co.	91 Federal St.	San Francisco 94107
9	CA	171		San Francisco 1913-5 v.2 # 121, 122	Federated Metals Div. (ASARCO)	75 Folsom	San Francisco 94105
9	CA	172		San Francisco 1913-5 v.1 # 25, 35	Secondary Metal Dept. (ASARCO)	405 Montgomery	San Francisco 94104
9	CA	173		CAD980496897	Smelter Supply Co. A/k/a C&S Battery & Lead Co. [CAD980496897]	860 Riske Lane	West Sacramento 95691
9	HI	174			National Metals Ltd.	P.O. Box 2157	Honolulu
10	WA	175			Morris P. Kirk & Son (National Lead)	5014 Airport Way	Seattle 98108
10	WA	176			Federated Metals Corp.	101 Dakota	Seattle 98134
10	WA	177		Seattle 1904-5 v.1 # 92	Rex Metal Works	117 Spokane	Seattle 98134
<b>Potential Tin, Solder, and Babbitt Smelters</b>							
1	CT	178	N		David C. Sanford Co.	39 Drouve	Bridgeport
1	CT	179	Y		Hamden Smelting Co. Inc	30 Edmund St	Hamden 06517
1	CT	180	Y		Lapides Metal Corp.	322 Legion Ave	New Haven 06519
1	CT	181	Y?	Sikorsky Airport	Surf Metal Co. A/k/a Rykar Corp Great Meadows?	240 Great Meadow Rd	Stratford 06615
1	MA	182	Y	Boston 1895-1900 v.2 3 27	Eastern Smelting & Refining Corp. [state ID # 3-0004665]	109 W. Brookline St	Boston 02118
1	MA	183	Y		General Metals & Smelting Co. [state ID# 3-0019130]	47 Topeka	Boston 02118
1	MA	184	Y		General Metals & Smelting Co.	47 Burnham	Boston 02127
1	MA	185	Y	Boston 1895-1900 v.4 # 81	Harcon Corp. a/k/a H. Cohen & Co., Inc.	523 Dorchester Ave	Boston 02127
1	MA	186	Y	Cambridge 1900-40 v.1 # 9	Shawmut Smelting Co.	455 Columbia	Cambridge 02141
1	MA	187	Y	Boston 1895-1900 v.5 # 89	Charlestown Smelting Co.	235 Medford	Charlestown 02129
1	MA	188	Y	Chelsea 1911 # 25, 26	Harcon Corp.	105 5th St.	Chelsea 02150
1	MA	189	Y	Chelsea 1911 # 4, 15	Oscar Cutler Co. [has state ID]	44 Arlington St.	Chelsea 02150
1	MA	190	Y	Chelsea 1911 # 25	Vulcan Smelting Works	115 Fifth	Chelsea 02150
1	MA	191	Y	Boston 1895-1900 v.4 # 496	Butter, Harry, & Co. [has state ID]	151 Mt. Vernon St.	Dorchester 02125
1	MA	192	Y	Boston 1931 v. 9 # 980	Nick, Herman, & Co. Inc.	140 Granite Ave.	Dorchester 02124
1	MA	193	Y	Cambridge 1900-40 v.1 # 33, 34	Massachusetts Smelting & Refining Co.	257 3rd	E. Cambridge 02142
1	MA	194	Y		Acme Smelting Co. of Mass. a/k/a Acme Type Metal Co.	413 2nd	Everett 02149
1	MA	195	Y?		Brckett, Chas. W. Co. [state ID# 4-0000615]	Mayflower Rd.	Plymouth 02364?
1	MA	196	Y		Acorn Type Foundry	273 Lee Burbank Hwy	Revere 02151

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Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
1	MA	197	Y	Somerville 1900 # 109, 110	Nick, Herman, Co., Inc.	135 Linwood St.	Somerville 02143
1	MA	198	Y		Brackett, Henry F. & Co.	587 E. 1st	South Boston 02127
1	MA	199	Y	Boston 1895-1900 v.4 # 28, 43	Coran Bros. Corp.	509 E. 2nd	South Boston 02127
1	MA	200	Y		Bloomfield, B. & Co. [has state ID]	2-3 Kansas St.	Worcester 01610
1	RI	201	Y	Providence 1920-1 v. 1 # 88, 89 OR Providence 1920-1 v. 5 # 13, 14	Union Smelting & Refining Works	358 Public St.	Providence 02905
1	RI	202	Y	Providence 1920-1 v. 2 # 1	Union Smelting & Refining Works	604 S. Main St.	Providence 02903
2	NJ	203	No address	Carteret 1924 # 19	U.S. Metals Refining Co. [NJD000526525]	--	Carteret
2	NJ	204	Y		Wolf, Jacques & Co.	350 Lexington Ave.	Clifton 07011
2	NJ	205	Y	Elizabeth 1922-3 v.1 # 7	Magnolia Metal Co.	18 W. Jersey St.	Elizabeth 07201
2	NJ	206	Y		New Jersey Metals Co.	712 Rockefeller	Elizabeth 07202
2	NJ	207	Y		Jackson Metal Co.	508 5th St.	Hoboken 07030
2	NJ	208	Y		Jackson Metal Co.	501 Jackson	Hoboken 07030
2	NJ	209	Y		Lehman, Ira & Co. Inc.	401 Jefferson	Hoboken 07030
2	NJ	210	Y?		Caswell, Strauss & Co.	Oak Tree Rd.	Iselin 08830
2	NJ	211	Y		Aetna Smelting & Refining Works, Inc.	13 Center	Jersey City 07302
2	NJ	212	Y		Richard Metal Refining	675 Garfield Ave.	Jersey City 07305
2	NJ	213	Y	Newark 1908-9 v.1 # 26, 31	B & S Metal Co.	193 Pacific St.	Newark 07114
2	NJ	214	Y		Canfield, M.C., Sons Co.	93 Wilsey	Newark 07103
2	NJ	215	Y	Newark 1908-9 v.1 # 59 ("Ferdon")	Coleman, Thomas	13 Reardon (Ferdon?) St.	Newark 07105
2	NJ	216	Y	Newark 1908-9 v.1 # 13	Frema Smelting & Refining Co.	192 Murray	Newark 07114
2	NJ	217	Y	Newark 1908-9 v.2 # 72	Orchard Refining & Smelting Works Inc.	9-37 Victoria St.	Newark 07114
2	NJ	218	Y	Newark 1908-9 v.1 # 36	Orchard Refining & Smelting Works Inc.	319 Chestnut	Newark 07105
2	NJ	219	Y		Schroth, Emil A., Inc.	39 Hyatt Ave.	Newark 07105
2	NJ	220	Y		Sepenuk, J. & Sons	21 Hyatt Ave.	Newark 07015
2	NJ	221	Y	Riverside 1925 # 3, 5, 6 (listed in specials)	The Riverside Metal Co.[NJD980755714]	1 Pavilion Ave.	Riverside 08075
2	NJ	222	Y	Trenton 1927 v.3 # 446, 447 (Klag)	Mitchell, L.H. Co.	216 Klagg Ave.	Trenton 08638
2	NJ	223	N		Bohas Metals	Mutton Hollow Rd.	Woodbridge
2	NY	224	Y		Ney Smelting & Refining	37-06 23rd Ave.	Astoria 11105
2	NY	225	Y		Alloys & Products Inc.	Barry & Oak Point Ave.	Bronx 10474
2	NY	226	Y		Merit Metal Smelting Co.	1361 Seneca Ave.	Bronx 10474
2	NY	227	Y	Brooklyn 1904-8 v.1 # 42, 55	AAA Alloys of America	12 Wyckoff Ave.	Brooklyn 11237
2	NY	228	Y	Brooklyn 1904-8 v.2 # 32	Alpha Metals & Rolling Mills	363-5 Hudson Ave.	Brooklyn 11201
2	NY	229	Y		Anchor Metal Co.	966 Meeker Ave.	Brooklyn 11222
2	NY	230	Y	Brooklyn 1904-8 v.9 # 35, 36	Anchor Metal Co.	244 Boerum	Brooklyn 11206
2	NY	231	Y	Brooklyn 1904-8 v.1 # 21	Atlas White Metal Co.	77 Delevan	Brooklyn 11231
2	NY	232	Y	Brooklyn 1904-8 v.2 # 6	Battaglia Bros., Inc.	31 Washington	Brooklyn 11201
2	NY	233	Y	Brooklyn 1904-8 v.1 # 20, 24	Brookhattan Smelting & Refining Co.	162 Richards St.	Brooklyn 11231
2	NY	234	Y	Brooklyn 1904-8 v.9 # 14	Brooklyn Scrap Metal Co.	171 Cook	Brooklyn 11206
2	NY	235	Y		Columbia Smelting & Refining Works a/k/a Roosevelt Metal Co.	958 Meeker Ave.	Brooklyn 11222
2	NY	236	Y		Crescent Smelting Works	232 Seigel	Brooklyn 11206
2	NY	237	Y	Brooklyn 1904-8 v.2 # 18, 19, 27	Flynn, Michael Inc.	16 Court	Brooklyn 11201
2	NY	238	Y	Brooklyn 1904-8 v.4 # 46, 47	Friedman Metal Co.	310 Oakland	Brooklyn 11226

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Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
2	NY	239	Y	Brooklyn 1904-8 v.9 # 57	Henning Bros & Smith Inc	91 Scott Ave.	Brooklyn 11237
2	NY	240	Y	Brooklyn 1904-8 v.2 # 18, 19, 27	Interstate Metals Co.	44 Court St.	Brooklyn 11201
2	NY	241	Y	Brooklyn 1904-8 v.8 # 41	Jackson-Wheeler Metal Service Inc.	270 Georgia Ave	Brooklyn 11207
2	NY	242	Y	Brooklyn 1904-8 v. 8 # 40, 41	Jackson-Wheeler Metals Service, Inc. a/k/a Belmont Metals [NYD001306877]	320 Belmont Ave.	Brooklyn 11207
2	NY	243	Y	Brooklyn 1904-8 v.9 # 33, 34	Kornblum, Sidney	394 Johnson Ave.	Brooklyn 11206
2	NY	244	Y	Brooklyn 1904-8 v. 3 # 4	Monroe Smelting Corp.	511 Kent Ave.	Brooklyn 11211
2	NY	245	Y	Brooklyn 1904-8 v.1 # 29, 37	Pittsburgh White Metal	284 Hamilton Ave.	Brooklyn 11231
2	NY	246	Y	Brooklyn 1904-8 v.1 # 31, 32	Prospect Smelting & Refining Works	149 2nd Ave.	Brooklyn 11215
2	NY	247	Y	Brooklyn 1904-8 v.9 # 56, 57	Rutgers Metal Co.	145 Gardner Ave.	Brooklyn 11237
2	NY	248	Y	Brooklyn 1904-8 v.4 # 17, 18	Standard Type Metals a/k/a Universal Metal & Smelting Corp.	261 N. 9th St.	Brooklyn 11211
2	NY	249	Y	Brooklyn 1904-8 v.9 # 32, 64	Valenti Metal Corp.	973-978 Grand	Brooklyn 11211
2	NY	250	Y	Brooklyn 1904-8 v.1 # 57, 58	American Nickel Alloy Mfg. Co.	318 Third Ave.	Brooklyn 11215
2	NY	251	Y	Brooklyn 1904-8 v.3 # 24	Wallabout Smelting & Refining Co.	31 Wilson	Brooklyn 11237
2	NY	252	Y		Buffalo White Metal Co. a/k/a Harry Fox Metal Co.	328 Howard	Buffalo 14206
2	NY	253	Y		Luman Bearing Co.	197 Lathrop St.	Buffalo 14212
2	NY	254	Y		Merit Metals	925 Bailey Ave.	Buffalo 14206
2	NY	255	Y		Niagara Falls Smelting & Refining Div. of Continental Copper & Steel Industries	2200-8 Elmwood Ave	Buffalo 14216
2	NY	256	Y	Buffalo 1889-1900 v.4 # 325, 327	Niagara Metal Co.	1378 Niagara St.	Buffalo 14213
2	NY	257	Y?		Glaser Lead Co. Inc.	142 Fulton Ave.	Garden City Park 11040
2	NY	258	No address		Electro Refractories Alloys Corp.	--	Kellogg
2	NY	259	No address		The Andrews Lead Company Inc.	--	L.I. City
2	NY	260	Y		Central Smelting Co.	2521-2531 51st Ave.	L.I. City 11101
2	NY	261	N		Flemm Lead Company Inc.	Bradley Ave & School St.	L.I. City
2	NY	262	Y		Flemm Lead Co. [found by FOIA]	52-01 (-05) 31 st Place	L.I. City 11101
2	NY	263	Y		Lissberger, Marks & Son	23-15 Borden Ave.	L.I. City 11101
2	NY	264	Y		Ney Smelting & Refining	44-09 10th	L.I. City 11101
2	NY	265	Y		Ney Smelting & Refining	37-06 23rd Ave.	L.I. City 11105
2	NY	266	Y		Stoll Metal Co. a/k/a Paragon Smelting Corp.	36-08 Review Ave.	L.I. City 11101
2	NY	267	Y	Mt Vernon 1918 # 24, 53	Jack Rosen	203 S. 11th Ave.	Mt. Vernon 10550
2	NY	268	Y?	New York 1903-19 v.9 # 60	Abbey Metal Corp.	868 E. 147th	New York (Bronx) 10455
2	NY	269	Office		American Nickel Alloy Mfg. Co. [office]	30 Vesey Street	New York
2	NY	270	Office		Barth Smelting Co.	15 Park Row	New York
2	NY	271	Y (Office)		Caswell, Strauss & Co.	17 State	New York 10004
2	NY	272	Y (Office)	New York 1903-19 v.13 # 3 (Bronx) ?	Dorfman Metal Co.	96 Warren St.	New York 10007
2	NY	273	Y		Merit Metal Smelting Co.	1413 E. Bay Ave.	New York (Bronx) 10474
2	NY	274	Y		Metal Reclaiming Co.	285 Water St.	New York 10038
2	NY	275	Y	New York 1903-19 v. 15 # 58, 63 (Bronx) ? New York 1903-19 v. 1 (North half) #53, 54 ?	Monroe Smelting & Refining Works Inc.	90 Monroe St.	New York 10002
2	NY	276	Y (Office)	New York 1903-19 v.17 # 6 (Bronx) ?	Nassau Smelting & Refining Co. (AT&T) [office?]	170 Fulton St.	New York 10007
2	NY	277	Y (Office)	New York 1903-19 v.4 # 40, 45	National Lead Goldsmith Bros. Div. [office?]	74 W. 46th St.	New York
2	NY	278	Y	New York 1903-19 v.9 # 12	New York Solder Co.	684 E. 133rd	New York (Bronx) 10454
2	NY	279	Y (Office)	New York 1903-19 v.1 (North half) # 47	New York Solder Co. Inc.	15 Crosby	New York 10013

## Appendix B - 464 Potential Smelters from Source List

----- For Internal EPA Use Only -----

Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
2	NY	280	Y	New York 1903-19 v.16 # 60, 61	Paymer Metal Co.	632 Truxton	New York (Bronx) 10474
2	NY	281	Y (Office)	New York 1903-19 v.5 # 6 ? New York 1903-19 v.3 # 19 ?	Standard Type Metals	263 W. 9th St.	New York 10001
2	NY	282	Y (Office)	New York 1903-19 v.18 # 94, 96 (Bronx) ? New York 1903-19 v.10 # 33 (Bronx) ?	U.S. Smelting Refining & Mining Co. [office]	57-62 William	New York 10005
2	NY	283	Y	Rochester 1911-2 v.4 # 402 (listed in specials)	Rochester Lead Works	380 Exchange St.	Rochester 14608
2	NY	284	Y	Syracuse 1910-28 v.1 # 21 (listed in specials)	Empire Metal Co.	820 E. Water	Syracuse 13210
2	NY	285	Y	Syracuse 1910-28 v.1 # 9, 10	Roth Bros. Metal Co.	1107 S. State	Syracuse 13202
2	NY	286	Y	Utica 1925 V.1 # 16	Katzman, N. & Co.	115 Broadway	Utica 13502
2	NY	287	Y		Neo Smelting & Refining	150-40 11th Ave.	Whitestone 11357
2	NY	288	Y	Yonkers 1917 # 50, 57, 58, 62, 68, 69, 70	Yonkers Metal Corp.	957 Saw Mill River Rd	Yonkers 10710
3	MD	289	No address		Arundel Chemical Corp.	P.O. Box 216	Baltimore
3	MD	290	Y	Baltimore 1914-5 v.5 # 499, 500 ?	Dixie Metal Co. a/k/a K. Hettelman & Sons	9th St. & Patapsco	Baltimore 21225
3	MD	291	Y	Baltimore v. 9 # 59	Dixie Metals Co. a/k/a K. Hettelman & Sons A/k/a Kopper Co. Inc. Eng Metal Prod [MDD045677036]	1400 Bush	Baltimore 21230
3	MD	292	Y	Baltimore 1914-5 v.1 # 38, 47	Hanover Metal Co. [MD000752220] active	20 W. Cross	Baltimore 21230
3	MD	293	Y	Baltimore 1914-5 v.1 # 37	National Lead A/k/a NL Industries Inc. Baltimore Metal Plt [MDD980537435]	214 Henrietta	Baltimore 21230
3	MD	294	Y		Standard Metal Refining	4200 Boston Rd.	Baltimore 21224
3	MD	295	Y		United American Metals	1800 Cherry Hill Rd	Baltimore 21230
3	MD	296	Y		United American Metals	4101 Curtis Ave.	Baltimore 21226
3	MD	297	No address		Wolfe, Herbert A. Metal Co.	--	Fairfield
3	PA	298	No address		Standard Metal Alloys	--	Conshohocken
3	PA	299	Y		United States Metal Products Co.	Fillmore Ave.	Erie 16505
3	PA	300	Y	Glassport 1925 # 5, 6	Coslov Company	130 Monongahela Ave	Glassport 15045
3	PA	301	Y	Harrisburg 1905 # 34	Penn-Harris Metals Corp.	1650 N. Cameron St.	Harrisburg 17103
3	PA	302	No address		Lewistown Smelting & Refining Co. Inc.	P.O. Box 708	Lewistown
3	PA	303	Y	Philadelphia 1916-29 v.7 # 622, 623	A. Perez & Son Div. of Abrams Metal Co.	1429 N. 22nd	Philadelphia 19121
3	PA	304	Y	Philadelphia 1916-29 v.14 # 1372	A. Perez & Son	5010 Lancaster	Philadelphia 19131
3	PA	305	Y	Philadelphia 1916-29 v.8 # 744, 766	Atlantic Metals Corp.	2117 E. York	Philadelphia 19125
3	PA	306	Y	Philadelphia 1916-29 v.22 # 2106	Cadman, A.W. Mfg. Co.	18 W. Chelton Ave.	Philadelphia 19144
3	PA	307	Y	Philadelphia 1916-29 v.8 # 730	Car-Mor Metal Co.	Gaul & Gordon Sts.	Philadelphia 19125
3	PA	308	Y	Philadelphia 1916-29 v.10 # 970, 971	General Smelting Co.	2901 E. Westmoreland	Philadelphia 19134
3	PA	309	N (do not intersect)		Joseph Berliner Co.	Lewis below Ashland	Philadelphia
3	PA	310	Y	Philadelphia 1916-29 v.3 # 223, 232	Liberty Smelting Co.	614 Brown	Philadelphia 19123
3	PA	311	Y	Philadelphia 1916-29 v.6 # 519, 535	Merchants & Evans Co.	2035 Washington Ave	Philadelphia 19146
3	PA	312	Y	Philadelphia 1916-29 v.6 # 568, 569	Metallurgical Products	35th & Moore	Philadelphia 19145
3	PA	313	Y	Philadelphia 1916-29 v.6 # 520, 521, 536	Mink Smelting & Refining Works	18th & Washington	Philadelphia 19146
3	PA	314		Philadelphia 1916-29 v.3 # 208, 209	Philadelphia Smelting & Refining Co.	341 New Market	Philadelphia 19106?
3	PA	315	Y		Reid Metal Refining Co.	Castor Ave. & Tulip	Philadelphia 19134
3	PA	316	Y	Philadelphia 1916-29 v.10 # 930	Reliable Metals Refining	3318 Memphis	Philadelphia 19134
3	PA	317	Y	Philadelphia 1916-29 v.10 # 920, 921, 29, 930	Sall, George, Metals Co.	Westmoreland & Tulip	Philadelphia 19134



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Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
3	PA	318	Y	Philadelphia 1916-29 v.3 # 230, 231	Standard Metal Alloy Co.	813 Parrish	Philadelphia 19123
3	PA	319	Y	Philadelphia 1916-29 v.6 # 521, 537	United Smelting & Refining Co.	1700 Washington	Philadelphia 19146
3	PA	320	Y		White Bros. Smelting	Bridgesburg-on-the-Delaware	Philadelphia 19137
3	PA	321	Y	Pittsburgh 1924-7 v.2 # 205, 206	Cadman, A.W. Mfg. Co.	2815 Smallman St. Air Tool Parts Service Co. 2837 Smallman St [PAD004340469] Fawcus Machine Inc. 2828 Smallman [PAD981036478]	Pittsburgh 15222
3	PA	323	Y	Pittsburgh 1924-7 v.14 # 1419	Imperial Type Metal Co.	1247 Reedsdale	Pittsburgh 15233
3	PA	324	Y	Pittsburgh 1924-7 v.2 # 208	Magnolia Metal Co.	3000 Liberty Ave.	Pittsburgh 15201
3	PA	325	Y	Pittsburgh 1924-7 v.2 # 215	Pittsburgh White Metal	3116 Penn Ave.	Pittsburgh 15201
3	VA	326	Y		Glazier Metal Co.	21st & Hull Sts.	Richmond 23224
4	AL	327	Y?		Birmingham Lead & Smelting Co.	Pinson Rd. Electrical Equip. 4280 Pinson Pkwy?	Birmingham 35217?
4	FL	328	Y		Tampa Lead Industries	5217 E. Broadway Ave	Tampa 33619
4	KY	329	Y	Louisville 1905 v.1 # 18, 19	Precision Metals Co.	131 N. 10th	Louisville 40202
4	KY	330	Y	Newport 1910 # 29	Certified Metals Mfg Co.	534 W. 12th	Newport 41701
4	KY	331	Y	Newport 1910 # 41, 42, 43	Certified Metals Mfg Co.	12th & Licking Pike	Newport 41701
4	NC	332	Y		Southern Metals Co. Inc.	1035 W. Morehead	Charlotte 28208
4	NC	333	Y		Southern Metals Co. Inc.	1023 W. Palmer	Charlotte 28208
4	NC	334	Y (Acadia Ave)	Winston-Salem 1912 #41	Industrial Metals Alloy Co. [NCD986178382]	20 E. Arcadia Ave.	Winston-Salem 27127
4	TN	335	Y	Nashville 1914 v.1 #29, 43	Cline & Bernheim	810 N. 17th Ave.	Nashville 37203
5	IL	336	No address		Eagle-Picher	--	Argo
5	IL	337	No address		Aurora Refining Co.	--	Aurora
5	IL	338	No address		Federated Metals Div. ASARCO a/k/a Circle Smelting [NPL site]	--	Beckemeyer
5	IL	339	Y		A.W. Cadman Mfg. Co. [office?]	431 S. Dearborn	Chicago 60605
5	IL	340	Y	Chicago 1905-51 v.4 # 75	Ablin Bros. Scrap Metals	3450 S. LaSalle	Chicago 60616
5	IL	341	Y	Chicago 1905-51 v.20 # 21, 22	Ace Metal Co.	4500 W. Fillmore Heppers Elston Roofing Co 4440 Fillmore	Chicago 60624
5	IL	342	Y		Allied Metal Co.	1111 W. Liberty St.	Chicago 60608
5	IL	343	Y		Alpha-Loy Corp. Midwest Div., Alpha Metals Inc.	2250 S. Lumber St.	Chicago 60616
5	IL	344	Office	Chicago 1905-51 v.1(N,W) # 70	American Metal Co. of Illinois, Ltd. [office?]	1 N. LaSalle	Chicago
5	IL	345	Y	Chicago 1905-51 v.4 # 33	Ames Metal Products Co.	1840 W. 33rd	Chicago 60608
5	IL	346	Y	Chicago 1905-51 v.6 # 70	Braman, Chas. & Sons	2046 W. Carroll Av	Chicago 60612
5	IL	347	Y		Century Smelting & Refining Corp.	2135 S. Loomis	Chicago 60608
5	IL	348	Y	Chicago 1905-51 v.22 # 46, 47	Chicago Smelting & Refining Corp.	3701 S. Kedzie Ave.	Chicago 60632
5	IL	349	Y	Chicago 1905-51 v.21 # 113, 114	Cohn, H. & Sons A/k/a Allied Metal Co. [ILD005096532]	4528 W. Division St	Chicago 60651
5	IL	350	Y	Chicago 1905-51 v.12 # 28	Cooke, Miller, Yoelin	2635 W. Taylor St.	Chicago 60612
5	IL	351	Y	Chicago 1905-51 v.12 # 54	Delta Metals Inc.	1440 S. Talman	Chicago 60608
5	IL	352	Y	Chicago 1905-51 v.6 # 82	Division Lead Co. (DIVCO)	836 W. Kinzie St.	Chicago 60622
5	IL	353	Y	Chicago 1905-51 v.6 # 78	Elesco Smelting Corp. a/k/a Suppo Smelting & Refining	1240 W. Carroll Av	Chicago 60607
5	IL	354	Y	Chicago 1905-51 v.22 # 19, 20	Elesco Smelting Corp.	3401 S. Lawndale Ave	Chicago 60623
5	IL	355	Y	Chicago 1905-51 v.7 # 113	Elesco Smelting Corp.	1144 W. 14th Place	Chicago 60608
5	IL	356	Y	Chicago 1905-51 v.5 # 45	Ellis Metal Co.	2031 W.Churchill St	Chicago 60647
5	IL	357	Y		I.A. Berkson Metal Co.	1130 W.Wisconsin St	Chicago 60614
5	IL	358	Y	Chicago 1905-51 v.5 # 50, 53	I.A. Berkson Metal Co.	1500 Wabansia	Chicago 60622

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Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
5	IL	359	Y	Chicago 1905-51 v.20 # 21, 22	Imperial Smelting Corp.	4442 W. Fillmore St	Chicago 60624
5	IL	360	Office		International Smelting & Refining Co. [office?]	20 N. Wacker Dr.	Chicago
5	IL	361	Office	Chicago 1905-51 v.1(S) # 88	Interstate Smelting & Refining Co. [office?]	332 S. Michigan	Chicago
5	IL	362	Y		J.Berkson & Sons Metal Co.	2239 S. Union Ave.	Chicago 60616
5	IL	363	Y	Chicago 1905-51 v.21 # 15, 31	Kester Solder Co.	4201 Wrightwood Av	Chicago 66039
5	IL	364	Y	Chicago 1905-51 v.16 # 95	L.D. Allen Metal Works	6932 S. Clyde	Chicago 60649
5	IL	365	Y		Lake Calumet Smelting	11901 S. Champlain	Chicago 60628
5	IL	366	Y		Lincoln Smelting & Refining Co.	5811 W. 66th St.	Chicago 60638
5	IL	367	Y	Chicago 1905-51 v.6 # 70	Metals Recovery Co.	2026 W. Carroll Av	Chicago 60612
5	IL	368	Y	Chicago 1905-51 v.5 # 40	Miller Yoelin Co. a/k/a North Branch Metal Products Inc.	1925 N. Mendell	Chicago 60622
5	IL	369	Y	Chicago 1905-51 v.6 # 89	National Metal Co.	1724 W. Lake	Chicago 60612
5	IL	370	Y	Chicago 1905-51 v.19 # 110, 119, 120	North Branch Metal Products Inc.	3388 N.Avonendale	Chicago 60618
5	IL	371	Y	Chicago 1905-51 v.22 # 15, 16	Seaway Metals Refining Corp.	3307 S. Lawndale Av	Chicago 60623
5	IL	372	Y	Chicago 1905-51 v.5 # 36	Seligman, M., Co.	1951 Clybourn Ave.	Chicago 60614
5	IL	373	Y	Chicago 1905-51 v.5 # 52, 54	Silverstein & Pinsof active, 1996	1720 Elston Ave.	Chicago 60622
5	IL	374	Y		Smith & Robinson	1764 W. Highland	Chicago 60660
5	IL	375	Y		Smith & Robinson	420 Orleans	Chicago 60610
5	IL	376	Y	Chicago 1905-51 v.11 # 89 (not "W")	United Refining & Smelting	2920 W. Carroll Ave	Chicago 60612
5	IL	377	Y	Chicago 1905-51 v.11 # 71, 72	United Refining & Smelting Co.	3350 Franklin Blvd.	Chicago 60624
5	IL	378	Y	Chicago 1905-51 v.22 # 6, 7	Western Metal Co.	3201 S. Kedzie Ave.	Chicago 60623
5	IL	379	Y	Chicago 1905-51 v.20 # 138 ?	Hi Grade Alloys Corp.	3034 E. 59th	Chicago 60629
5	IL	380	Y	East St Louis 1905 v.1 # 60	Shanfeld, E. Metal Products	1530 Converse Ave.	East St. Louis 62207
5	IL	381	Y		Saxon Metal Co.	17730 Chicago Ave.	Lansing 60438
5	IL	382	No address		Superior Metal Reclaiming	--	Lansing
5	IL	383	Y	Rock Island 1906 # 3	Dalkoff Metals	9th & 1st Ave.	Rock Island 61201
5	IN	384	Y		Inland Metals Refining	3601 Canal St.	East Chicago 46312
5	IN	385	Y		U.S. Reduction Co.	Melville & Chicago Ave.	East Chicago 46312
5	IN	386	Y		Wabash Smelting Co.	1509 McKinley Ave.	Fort Wayne 46802
5	IN	387	No address		Maynard Metals Co. Inc.	P.O.Box 1101	Hammond
5	IN	388	Y		Metals Supply Service	6020 Hump Rd.	Hammond 46320
5	IN	389	No address		Braman, Chas. & Sons	P.O. Box 547	Plymouth
5	IN	390	Y		Max Schneider Co.	2606 W. Sample	South Bend 46619
5	MI	391	Y	Benton Harbor 1926 # 18	Mindel, M. & Sons	319 8th St.	Benton Harbor 49022
5	MI	392	Y	Detroit Free Press: . 1950-60's maps show smelting furnace	Acme Metal Co	1436 Holbrook St.	Detroit 48211
5	MI	393	Y	Detroit Free Press: Maps show smelter 1930-60's	Aetna Smelting & Refining Co.	1826 Illinois	Detroit 48207
5	MI	394	Y	Detroit Free Press: Maps from 1950-60's show smelting furnace. 1953 city directory lists as smelter/refiner	City Metals Refining Co.	2945 Hubbard	Detroit
5	MI	395	Y	Detroit Free Press: operating since 1947	Continental Metal Co.	11500 Russell	Detroit 48211
5	MI	396	Y	Detroit Free Press: 1930-50's maps show metals warehouse	Federal Alloys Corp.	924 Leland	Detroit 48207

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Reg	ST	Site No.	Street Map/Aerial Photo	Sanborn Fire Ins. Map Reference	Site Name	Address	City / Zip
5	MI	397	Y	Detroit Free Press: 1941 map shows lead foundry. Operated until 1955	Federal-Mogul Corp	11031 Shoemaker St.	Detroit 48213
5	MI	398	Y	Detroit Free Press: 1950-60's maps show scrap metal recycling plant	Great Lakes Smelting Co.	1640 E. Euclid Ave.	Detroit 48211
5	MI	399	Y	Detroit Free Press: 1978 map shows smelter	Industrial Smelting Co.	19430 Mt. Elliott	Detroit 48234
5	MI	400	Y	Detroit Free Press: 1953 map shows scrap metal recycler. 1928-9 city directory: City Metals Refining Co.	Industrial Smelting Co.	648 E. Columbia Ave.	Detroit 48201
5	MI	401	Y	Detroit Free Press: 1940 lease describes use as metal of metal products	Motex Metal Process Corp.	4473 W. Jefferson	Detroit 48209
5	MI	402	Y	Detroit Free Press: 1950s map show scrap metal recycler	Standard Metals Co	1560 Franklin St.	Detroit 48207
5	MI	403	Y	Detroit Free Press: 1950-60's maps show solder manufacturer	Wolverine White Metal Co.	3421 Gibson	Detroit 48201
5	MN	404	Y		Metals Refining Co.	218 3rd Ave. N	Minneapolis 55401
5	MN	405	Y		Northwestern Smelting & Refining Co.	2523 Hiawatha Ave.	Minneapolis 55404 or 55406
5	OH	406	Y		Certified Metals Mfg. Co.	1940 River Rd.	Cincinnati 45204
5	OH	407	Y		G.A.Avril Co.	Este Ave. & B&O RR	Cincinnati 45232
5	OH	408	Y		Moskowitz Bros.	Budd & Harriet Sts. United Lead, Harriet & Court ? [OHD980611925] Eckstein Co., Harriet & 8th St ? [OHD980611917]	Cincinnati 45203
5	OH	409		SMD1946	Gibson & Price Co. (National Lead)	1213 W. 3rd	Cleveland 44113
5	OH	410		Mowery Metal Co.	Mowery Metal Co.	6950 KINSMAN ROAD SE	Cleveland
5	OH	411	Y		North American Smelting	572 Juneway Dr.	Cleveland 44140
5	OH	412	Y		Columbus Metal Co.	459 Parsons Ave.	Columbus 43215
5	OH	413	Y		Columbus Metal Co.	2505 Groveport Pike	Columbus 43207
5	OH	414	Y	Toledo 1904-21 v.1 # 2, 5	Linver-Kripke Div. Wabash Scrap Material Co.	628 S. 15th	Toledo 43602
5	WI	415	Y		Cassel, A.A., Metal Co.	518 N. 20th	Milwaukee 53233
5	WI	416	Y		Cream City Smelting Works	2726 W. Evergreen Lane	Milwaukee 53215
5	WI	417	Y		Crown Metal Co.	117-121 E. Washington	Milwaukee 53204
5	WI	418	Y		Jacob Bros. White Metal	538 S.2nd	Milwaukee 53203
5	WI	419	Y		Locher, R.E. & Shefrin	1120 S. Barclay	Milwaukee 53204
5	WI	420	Y		Schiffman, Hy, Co.	1428 W. Pierce Vulcan Lead Products, 1400 W. Pierce [active]	Milwaukee 53204
6	TX	421	Y		Western Lead Inc.	290 N. Osage	Amarillo 79107
6	TX	422	Y		American Smelting & Refining Works	4801 S. Lamar	Dallas 75215
6	TX	423	N (minimum street number 5700)		Lead Products Co. [TXD008080715]	709 N. Velasco	Dallas
6	TX	424	Y?		Grant & Tunnell Co.	Sargeant Rd. Valcar Enterprises ?1240 Sargeant [TXD007300101]	Dallas 75203?
6	TX	425	Y		Atlas Smelting & Refining Co.	6800 Brewster	Houston 77093
6	TX	426	Y		Eagle-Picher Co.	1121 Rothwell	Houston 77002
6	TX	427	Y	Houston 1924-50 v.1 # 44	Murdock Lead Products	1209 Hutchins	Houston 77003
6	TX	428			Wilkinson Bros. Smelting	2320 St. Rita	Laredo

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7	MO	429	Y		Shostak Metal Corp.	303 Broadway	Kansas City 64105
7	MO	430	Y		American Lead Products	2939 Chouteau Ave. Crown Plating 2915-7 Choteau [MOD006287130]	St. Louis 63103
7	MO	431	Y		Frictionless Metal Co.	1458 Collins	St. Louis 63102
7	MO	432	Y		Holtzman, M., Metal Co.	5223 McKissock Ave.	St. Louis 63147
7	MO	433	Y		Shanfeld Bros. Metal Co.	56-70 Dock St.	St. Louis 63147
8	CO	434	Y	Denver 1929-30 v.1 # 5, 81	National Smelting & Refining Co.	1351 13th	Denver 80204
8	UT	435	Y		Lake Metals Co.	1520 Pioneer Rd.	Salt Lake City 84104
8	UT	436	Y		Utah Metal Works	1155 Hays Ave.	Salt Lake City 84104
9	CA	437	Y		Cook Metal Co.	5752 Joanne Pl.	Culver City 90230
9	CA	438	Y		Kramer, H. & Co.	631 S. Aviation Blvd	El Segundo 90245
9	CA	439	Y		Goldberg Metal Refining	14700 S. Avalon	Gardena 90248
9	CA	440	Y		Sonken-Galamba Corp.	1439 W. 178th	Gardena 90248
9	CA	441	Y		J. Chersky & Sons a/k/a Universal Smelting & Refining Co.	441 W. Florence Ave	Inglewood 90301
9	CA	442	Y		Ben Chersky & Sons	3500 Emery	Los Angeles 90023
9	CA	443	Y		California By-Products	5717 S. District Blvd	Los Angeles 90040
9	CA	444	Y		Liberty Metal Co.	2005 Bay	Los Angeles 90021
9	CA	445	Y		Mobile Smelting Co.	11813 S. Alameda	Los Angeles 90059
9	CA	446	Y		California Smelting & Refining Co.	1549 N. Fishburn Ave	Los Angeles 90063
9	CA	447	Y		Electric Babbitt Metals a/k/a Los Angeles Smelting Co.	739 N. Main	Los Angeles 90012
9	CA	448	Y	Oakland 1911-2 v.2 # 171	Bercovich, A., Co.	127 2nd	Oakland 94607
9	CA	449	Y	Oakland 1911-2 v.1 # 56	Bercovich, A., Co. a/k/a Sunset Smelting & Refining Co.	1639 18th	Oakland 94606
9	CA	450	Y	Oakland 1911-2 v. 1 # 57, 58	Bunker Hill Co.	1336 16th	Oakland 94607
9	CA	451	Y		Berg Metals Corp. [found by FOIA]	1200 Minnesota St.	San Francisco 94107
9	CA	452	Y		Bondrat Metals Corp.	23rd & Minnesota	San Francisco 94107
9	CA	453	Y		Asher Metal Co.	584 4th	San Francisco
9	CA	454	Y		Finn, John, Metal Works	384 2nd	San Francisco 94107
9	CA	455	Y		Gollan Type Metal Co.	1220 Penn. Ave	San Francisco 94107
9	CA	456	Y		Magnolia Metal Co.	660 3rd	San Francisco 94107
9	CA	457	Y Adjacent		Mars Metal Corp.	Foot of Tunnell Av	San Francisco 94134?
9	CA	458	Y (Office)		Northwest Lead Co.	444 Market	San Francisco
9	CA	459	Y		Roto Metals Inc. [found by FOIA]	980 Harrison	San Francisco 94107
9	CA	460	Y		United American Metals Corp. of California	785 Bryant St.	San Francisco 94107
9	HI	461	Y		Hawaii Lead Co.	965 Nimitz Highway	Honolulu 96817
10	OR	462	Y		The Bunker Hill Co. [state is aware]	1233 NW Kearny	Portland 97209
10	OR	463	Y?		Multnomah Metal Co. [state is aware]	1434 SW Front Ave.	Portland 00000
10	OR	464	Y	Portland 1924-8 v.8 # 897 (Park Dr., no St nos)	Pacific Metal Co. [state is aware]	303 NW Park	Portland 97209
10	WA	465 (NPL site)	Y		Non-Ferrous Metals Inc. [found by FOIA]	2906 16th Ave SW	Seattle 98144

## Appendix C

### Potential Smelters Included in OSRTI's Project Sample

# Appendix C - 31 Potential Smelters Included in OSRTI's Project Sample

----- For Internal EPA Use Only -----

Reg.	St.	Source Site No.	EPA ID assigned by Region	Source Site Name	Source Address	Source City/Zip	Population within 1/4 Mile	Number of Schools within 1/4 Mile	Source Comments	Geocoded Street Address	Longitude	Latitude
1	MA	200	MAN000104485	Bloomfield, B. & Co. [EPA=Babco Realty]	2-3 Kansas St.	Worcester 01610	1,098	2	SMD1950, 1963	2 Kansas Street	-71.8044535	42.244169
1	MA	184	MAN000104487	General Metals & Smelting Co.	47 Burnham	Boston 02127	3,582	1	SMD1950	47 Burnham	-71.0411754	42.336665
1	MA	001	MAN000104488	Harcon Corp.	41 Hilton St.	Boston	2,647	1	SMD1940	41 Hilton Street	-71.1204122	42.261458
1	MA	186	MAN000104486	Shawmut Smelting Co.	455 Columbia	Cambridge 02141	4,339	1	SMD1963	455 Columbia	-71.0944937	42.374131
1	RI	201	RIN000104194	Union Smelting & Refining Works	358 Public St.	Providence 02905	2,384	2	SMD1963	358 Public Street	-71.4128601	41.805851
2	NJ	207	NJN000205872	Jackson Metal Co.	508 5th St.	Hoboken 07030	7,883	3	SMD1950	508 5th Street	-74.0369041	40.74356
2	NY	228	NYN000205871	Alpha Metals & Rolling Mills	363-5 Hudson Ave.	Brooklyn 11201	8,752	1	SMD1950 MS1937.	363 Hudson Avenue	-73.9799678	40.691217
2	NY	275	NYN000205873	Monroe Smelting & Refining Works Inc.	90 Monroe St.	New York 10002	24,350	2	SMD1946	90 Monroe Street	-73.9925558	40.712346
2	NY	224/265	NYN000205869	Ney Smelting & Refining	37-06 23rd Ave.	Astoria/L.I. City 11105	10,911	1	SMD1950	37 23rd Avenue	-73.9089042	40.771704
2	NY	251	NYN000205870	Wallabout Smelting & Refining Co.	31 Wilson	Brooklyn 11237	8,075	3	SMD1963	31 Wilson	-73.9291718	40.702782
3	PA	305	PAN000306199	Atlantic Metals Corp.	2117 E. York	Philadelphia 19125	4,559	1	SMD1950	2117 E. York	-75.127724	39.98208
3	PA	307	PAN000306202	Car-Mor Metal Co.	Gaul & Gordon Sts.	Philadelphia 19125	5,083	1	SMD1950 equip	2320 Gaul St	-75.1245491	39.976952
3	PA	311	PAN000306200	Merchants & Evans Co.	2035 Washington Ave	Philadelphia 19146	4,897	2	SMD1950	2035 Washington Ave	-75.1796607	39.939009
3	PA	313	PAN000306198	Mink Smelting & Refining Works	18th & Washington	Philadelphia 19146	3,878	2	SMD1950	18th & Washington	-75.17293	39.93831
3	PA	319	PAN000306201	United Smelting & Refining Co.	1700 Washington	Philadelphia 19146	3,878	2	SMD1954	1700 Washington	-75.171556	39.937997
4	GA	085	GAN000409871	Miller Metal Co.	141 Fort St.	Atlanta 30312	2,394	1	SMD1940	141 Fort Street	-84.3776148	33.757735
4	NC	334	NCN000409780	Industrial Metals Alloy Co.	20 E. Arcadia Ave.	Winston-Salem 27127	608	1	SMD1963 MS1938	20 E. Arcadia Avenue	-80.2394737	36.071578
4	TN	335	TNN000409880	Cline & Bernheim	810 N. 17th Ave.	Nashville 37203	762	2	SMD1963	810 N. 17th Avenue	-86.8015526	36.164109
5	IL	379	ILNP00510043	Hi Grade Alloys Corp.	3034 E. 59th	Chicago 60629	5,950	1	SMD1963	3034 E. 59th	-87.6999395	41.786349
5	IL	098	ILNP00510040	Illinois Smelting & Refining Co.	3710 S. California Ave.	Chicago 60632	3,212	1	SMD1950	3710 S. California Avenue	-87.6949904	41.826356
5	IL	364	ILP000510080	L.D. Allen Metal Works	6932 S. Clyde	Chicago 60649	6,010	1	SMD1963	6932 S. Clyde	-87.5742267	41.769255
5	IL	100	ILP000510081	Loewenthal Metals Corp.	947 West Cullerton	Chicago 60608	3,839	2	SMD1940, 1950	947 West Cullerton	-87.6500115	41.855052
5	IL	101	ILNP00510018	Michigan Smelting & Refining Co.	410 N. Michigan Ave	Chicago	4,022	8	SMD1940	410 N. Michigan Ave	-87.6245108	41.889678
6	TX	144	TXN000606658	Wilkinson Bros. Smelting	1120 Ursula	Laredo	1,043	1	SMD1950, 1963	1120 Santa Ursula Ave	-99.5034745	27.509042
7	MO	430	MON000705365	American Lead Products	2939 Chouteau Ave. Crown	St. Louis 63103	249	1	SMD1950	2939 Chouteau Avenue	-90.2251411	38.623925
8	UT	436	UTN000802637	Utah Metal Works [EPA=Utah Metal Smelter]	1155 Hays Ave.	Salt Lake City 84104	1,068	1	SMD1950	1155 Hays Avenue	-111.923746	40.748522
9	CA	169	CAN000908409	Bunker Hill Co.	660 Market	San Francisco 94104	235	1	SMD1963	660 Market	-122.402731	37.788378
9	CA	454	CAN000908410	Finn, John, Metal Works	384 2nd	San Francisco 94107	2,112	1	SMD1950	384 2nd	-122.395415	37.784404
9	CA	438	CAN000908412	Kramer, H. & Co.	631 S. Aviation Blvd	El Segundo 90245	569	1	SMD1954	631 S. Aviation Blvd	-118.378676	33.90798
9	CA	172	CAN000908408	Secondary Metal Dept. (ASARCO)	405 Montgomery	San Francisco 94104	3,572	1	SMD1963	405 Montgomery	-122.402904	37.792931
9	CA	440	CAN000908413	Sonken-Galamba Corp.	1439 W. 178th	Gardena 90248	1,005	1	SMD1963	1439 W. 178th	-118.300439	33.869235

## Appendix D

### Assessment Results of 31 Sampled Sites

## Appendix D – Assessment Results of 31 Sampled Sites

### EPA Region 1

#### Bloomfield, B. & Co. (Region 1, CERCLIS ID# MAN000104485)

Bloomfield & B. Co. (aka Babco, aka Babco Realty)  
2-3 Kansas Street  
Worcester, MA 01610

This site was renamed to Babco Realty to match name of site in state program. This site was entered into CERCLIS under the name Babco Realty as "Not a Valid Site" with EPA ID# MAN000104485. It was not assigned to an EPA contractor for investigation because it is being addressed via state program requirements (MA DEP Release Tracking # 2-0168). The property came to the attention of the MA DEP in 1985 due to a release of oil and hazardous wastes to onsite soils. It is classified as a Tier 1B site currently in Phase IV of investigation (remedial action). The site is being addressed in compliance with state program requirements, focusing on all contaminants which exceed state standards and pose a risk to human health or the environment. It is not clear whether the onsite contaminants include residues linked to former smelter activity.

#### General Metals & Smelting Co. (Region 1, CERCLIS ID# MAN000104487)

General Metals and Smelting  
47 Topeka Street (Formerly Burnham Street)  
Boston, Suffolk County, MA

This site was entered into CERCLIS under the name General Metals and Smelting with EPA ID# MAN000104487 as "Not a Valid Site". The property was formerly occupied by three buildings located at 25, 47, and 71 Topeka Street, in a highly industrial section of Boston, MA. The smelting facility was active from approximately the 1930s until the 1970s. Following closure of the smelter operation, the property was reportedly used as a scrap metal storage facility, and the company was listed as a metals recycler until approximately 1998. In 1999, a Phase I SI was initiated in preparation for a transfer of ownership. The assessment detected elevated levels of lead [maximum concentrations of 16,900 parts per million (ppm)] in surface soil samples on the property. The data were provided to the MA DEP, and the site was entered into the state system in 1999. Two of the on-site buildings were destroyed by a fire in February 2001, and the third is currently used as refrigerated storage by an independent company. The vacant portion of the property is contained by a locked, gated fence, with "NO TRESPASSING" signs. Based on the available data, this site does not appear to pose a significant risk to human health at present.

#### Harcon Corp. (Region 1, CERCLIS ID# MAN000104488)

Harcon Corporation  
41 Bradston Street (Formerly Hilton Street)  
Boston, Suffolk County, MA

This site was entered into CERCLIS under the name Harcon Corp. with EPA ID# MAN000104488 as "Not a Valid Site". The property was formerly occupied by one building



located at 41 Bradston Street (Formerly Hilton Street), in a highly industrial section of Boston, MA. Although the property was owned and occupied by Harcon Corp. from approximately 1940 until the 1970s, the site operated as a metal and auto scrap yard. While Harcon Corporation was a metals recycler, and conducted smelting operations, no documentation that smelting operations were performed on the 1.2-acre property on Bradston Street has been discovered. Historically, the property has been surrounded by industrial/commercial properties, including Boston Consolidated Gas Company and Metropolitan Coal Company. The property was vacant during the 1980s and property improvements occurred during the 1990s. The site currently consists of a paved parking lot utilized by the Suffolk County House of Corrections (a prison), and a portion of Bradston Street (paved roadway). It is currently owned by the Commonwealth of Massachusetts. No sampling data are available for the former Harcon property; however, sampling conducted along the former property line (adjacent lot also utilized by Suffolk County House of Corrections) in 2000 indicated elevated levels of metals including lead [maximum concentration was 948 parts per million (ppm)] in surface soil samples. Based on the limited potential for direct contact, this site does not appear to pose a significant risk to human health.

Shawmut Smelting Co. (Region 1, CERCLIS ID# MAN000104486)

Shawmut Smelting  
455 Columbia Street  
Cambridge, Middlesex County, MA

This site was entered into CERCLIS under the name Shawmut Smelting Co. with EPA ID# MAN000104486 as "Not a Valid Site". The property was formerly occupied by one building located at 455 Columbia Street, in a highly industrial/commercial section of Cambridge, MA. Based on available information (including tax and property deed records back through 1939), no references indicate that the Shawmut Smelting Co. has operated at this location or that smelting operations were performed on this 0.15-acre property. Sanborn Fire Insurance Maps indicate the property has been used for junk auto storage, auto recycling, and auto repair businesses since the early 1900s, and has been bounded by industrial, commercial, and residential properties, including numerous metal scrap yards, auto scrap yards, auto repair facilities, and various other recycling facilities. The property currently consists of a fenced, paved parking lot utilized by an automobile towing company for vehicle storage. No sampling data are available for the property; however, sampling conducted on an adjacent lot in 2006 indicated elevated levels of metals including lead [maximum concentration was 275 parts per million (ppm)] in soil samples. The nearest residence is located approximately 70 feet from the property line. Based on the lack of evidence of smelting operations occurring on the site, and limited potential for direct contact, this site does not appear to pose a significant risk to human health.

Union Smelting & Refining Works (Region 1, CERCLIS ID# RIN000104194)

Union Smelting and Refining Works  
358 Public Street  
Providence, RI 02905

This site was entered into CERCLIS under the name Union Smelting and Refining Works (Former) as "Not a Valid Site" with EPA ID# RIN000104194 following Pre-CERCLIS Screening performed by the RI DEM. Based upon research completed by the RI DEM, USRW

operated onsite between 1951-1967, however, it is not known whether smelting activities actually occurred at this location. Potential risks to human health are through exposure to possibly contaminated soils. At present, the site is covered with grass and area residents and workers are provided with municipal water. There are no nearby surface water bodies. The RI DEM is currently negotiating with the property owners, Rhode Island Mortgage and Financing Corporation (RIMFC) and SWAP Inc. to investigate/remediate the site under the state Voluntary Clean Up Program and does not expect that it will be necessary to conduct further investigation via the federal Superfund program.

## **EPA Region 2**

Jackson Metal Co. (Region 2, CERCLIS ID# NJN000205872)  
508 5<sup>th</sup> St.  
Hoboken, NJ 07030

A pre-CERCLIS screening was completed at this site on September 28, 2006. No further Superfund response is needed.

Alpha Metals & Rolling Mills (Region 2, CERCLIS ID# NYN000205871)  
363-5 Hudson Ave.  
Brooklyn, NY 11201

A pre-CERCLIS screening was completed at this site on September 28, 2006. No further Superfund response is needed.

Monroe Smelting & Refining Works Inc. (Region 2, CERCLIS ID# NYN000205873)  
90 Monroe St.  
New York, NY 10002

A pre-CERCLIS screening was completed at this site on September 29, 2006. No further Superfund response is needed.

Ney Smelting & Refining (Region 2, CERCLIS ID# NYN000205869)  
37-06 23<sup>rd</sup> Ave.  
Astoria/L.I. City, NY 11105

A pre-CERCLIS screening was completed at this site on September 29, 2006. No further Superfund response is needed.

Wallabout Smelting & Refining Co. (Region 2, CERCLIS ID# NYN000205870)  
31 Wilson  
Brooklyn, NY 11237

A pre-CERCLIS screening was completed at this site on September 29, 2006. No further Superfund response is needed.

### **EPA Region 3**

#### Atlantic Metals Corp. (Region 3, CERCLIS ID# PAN000306199)

2117 East York Street  
Philadelphia, Pennsylvania, 19125.

This property was located in a predominately residential area north of Philadelphia. EPA conducted a windshield reconnaissance on December 16, 2005. The former lead smelter buildings are still visible on the property. Residents of the area indicated that the building currently occupying 2117 East York Street was the office building associated with the lead smelter, and that the actual smelter was located on the south side of the 2400 block of Martha Street. Residents reported that the smelter building has been condemned by the City of Philadelphia and is scheduled to be demolished. The former smelter property is predominantly covered in asphalt and concrete; however, vegetation was observed in various locations on the property; therefore, these areas are assumed to be covered in soil. Directly surrounding the former lead smelter property, to the north are commercial buildings and residential dwellings, to the south at York Street are a few smaller industrial buildings surrounded by residential homes on both sides of York Street, to the east of the lead smelter property is an open lot covered in vegetation, and to the west is a commercial building. The surrounding area is primarily occupied by two and three story residential row homes. Small areas of exposed soils were observed in the residential areas directly surrounding the site. No schools, parks, or daycare facilities were identified in the immediate vicinity of the site. Potential targets identified that may be exposed to lead-contaminated soils remaining in the vicinity of this property include the nearby residential population and any workers that may be involved with the potential demolition of the buildings on the property. The population within one quarter mile of the site is 4,020, with 622,427 persons within the 4-mile radius. No parks, schools or daycare centers have been identified in the area directly surrounding the site. Five schools have been identified within one-half mile of the site. Four parks were identified within one half mile of the site. Soils should be sampled for potential lead contamination on both the property prior to any demolition and in nearby residential yards.

#### Car-Mor Metal Co. (Region 3, CERCLIS ID# PAN000306202)

Gaul & Gordon Streets  
Philadelphia Pennsylvania 19125

This property is located in a primarily residential area of north Philadelphia at the intersection of Gaul and Gordon Streets, with some commercial and industrial development nearby. It is presently occupied by Jack Edmundson Plumbing and Heating Company. EPA conducted a windshield reconnaissance on December 16, 2005. Although there is nearby residential population, there are no exposed soils remaining on the property so there is currently no threat to a worker population. Soil will be sampled from nearby residential yards to determine whether there is any lead contamination that may pose a threat to residents.

Merchants & Evans Co. (Region 3, CERCLIS ID# PAN000306200)  
2035 Washington Avenue  
Philadelphia, Pennsylvania 19146

The property is located in a mixed industrial/commercial and residential area of south Philadelphia. Although no schools, parks, or daycare facilities were identified in the immediate vicinity of the site, there are seven schools within one-half mile of the site. The property is currently occupied by several companies, including Europa Fine Marble and Granite, Mattei Tire Company, Salini Bros., Ceramic Tile Showroom, and CAVA Building Supplies. The property was formerly owned by Merchants and Evans Company, a fire prevention and sprinkler company which may have previously performed metal work on site. EPA conducted a windshield reconnaissance on December 16, 2005. No exposed soils were observed on the property. Soils in nearby residential yards will be sampled for potential lead contamination.

Mink Smelting & Refining Works (Region 3, CERCLIS ID# PAN000306198)  
18<sup>TH</sup> Street And Washington Avenue  
Philadelphia Pennsylvania 19146  
"39.9380" north latitude and "75.1727" west longitude

This property is located in a mixed industrial, commercial, residential area of south Philadelphia. The property is currently occupied by Jer-Mar Metal Recycling and Acme Metals. EPA conducted a windshield reconnaissance on December 16, 2005. No exposed soils were identified on the property. Exposed soils were identified on residential properties and on a baseball field near the site. No schools or daycare facilities were identified in the immediate vicinity. A public school is located two blocks north of the property although no areas of exposed soil were observed. To determine if there is a threat to the residential population and people using the baseball field, soil should be sampled for potential lead contamination in residential yards and in the baseball field.

United Smelting & Refining Co. (Region 3, CERCLIS ID# PAN000306201)  
1700 Washington Avenue  
Philadelphia, Pennsylvania 19146  
"39.9377" north latitude and "75.1714"

This property is located in a mixed commercial/residential area of south Philadelphia, and is currently occupied by Strauss Auto. EPA conducted a windshield reconnaissance on December 16, 2005. Commercial development, a vacant warehouse, residential dwellings, and an open lot covered in vegetation surround the property. Exposed soils were observed on residential properties in the immediate vicinity of this site and on a baseball field located about 155 yards from the site. No daycare centers were observed directly surrounding the former lead smelter property. A public school is located two blocks north of the site, although no areas of exposed soil were observed on school property. Soils should be sampled for potential lead contamination in residential yards and in the baseball field.

## **EPA Region 4**

### Miller Metal Co. (Region 4, CERCLIS ID# GAN000409871)

Miller Metal had two locations

141 Fort Street (1938-1941): Miller Metals is listed in the city directory as being at this address; however, there is no historic documentation that a smelter was ever located here. Sanborn maps show the very small building at this address was adjacent to a very large junkyard. Since 1941, a very large area surrounding the building and the junkyard was developed into public housing that was recently demolished. The property is now slated for redevelopment. The developer (Atlanta Housing Authority) is interested in working with EPA to make sure that there are no lingering problems associated with Miller Metals and/or the junkyard. The environmental assessment samples that were previously taken covered a wide area and did not specifically address the area where Miller Metal and the junkyard were located. Some XRF screening may be planned, but since so much land disturbance has happened since the late 1930's, no further EPA response is planned.

73-75 Mills Street (1941-1952): A 1950 Sanborn map shows a building at this address marked "Metals Melting." The area of this former smelter is now contained by the Williams Street exit from Interstate 75/85. Because the construction of an interstate is an intrusive process requiring excavation and manipulation of soils, it is unlikely that native soils containing any residual contamination from the smelting operation remain at this location. Additionally, the inability to differentiate lead deposited by a smelting operation vs. lead deposited by leaded gasoline emissions prevents the collection of reliable data that could attribute the lead in the soil to the former Miller Metal company. No further EPA response is planned.

### Industrial Metals Alloy Co. (Region 4, CERCLIS ID# NCN000409780)

20 E. Arcadia Ave.

Winston-Salem, NC 27127

There is a PRP for this site that, in consultation with EPA and the state, is in the process of taking samples from a stream along the rear border of the site. The PRP is collecting bids from various environmental contractors for remediating the site. Excavation work is expected to begin after January, 2007.

### Cline & Bernheim (Region 4, CERCLIS ID# TNN000409880)

810 N. 17<sup>th</sup> Ave.

Nashville, TN 37203

This site has been managed by the Tennessee Division of Solid Waste Management/State Remediation Program. TN entered into a Brownfield agreement with the PRP. The PRP conducted remediation which included excavation and a cap. Current use is residential development. The TN Remediation Program closed the site and issued a No Further Action designation on September 5, 2006. No further EPA response is planned.

## **EPA Region 5**

### Hi Grade Alloys Corp. (Region 5, CERCLIS ID# ILNP00510043)

3034 E. 59<sup>th</sup>  
Chicago, IL 60629

IEPA conducted a pre-CERCLIS screening action on this site on 9/30/2005. The action was entered into CERCLIS as ILNP00510043. The site was entered as not a valid site or incident. Note: This address could not be located. This address would be east of downtown Chicago, in Lake Michigan. There are no private wells in this area as everyone is on Lake Michigan water. Even if it could be located, this site does not appear to pose a risk to humans.

### Illinois Smelting & Refining Co. (Region 5, CERCLIS ID# ILNP00510040)

3710 S. California Ave.  
Chicago, IL 60632

IEPA conducted a pre-CERCLIS screening action on this site on 9/30/2005. The action was entered into CERCLIS as ILNP00510040. The site was entered as not a valid site or incident. Currently a two-story brick building which appears to be used by Stack Container Services is located here. The surrounding area is occupied by commercial and industrial businesses and roadways. Residential occupancy in the area is about a block south of the property. The likelihood of human exposure to contaminated media, if present, would be very low considering the ground surface is mostly covered by artificial surfaces. The property is bordered by a tall chain link fence with barbed wire on the top. There are no private wells in this area as everyone is on Lake Michigan water. This site does not appear to pose a risk to humans.

### L.D. Allen Metal Works (Region 5, CERCLIS ID# ILP000510080)

6932 S. Clyde  
Chicago, IL 60649

This address is located in an area commonly referred to as the South Shores Area, which borders the downtown area of Chicago. Currently, this is the location of a large multi-family three-story brick building with no unique features. No records showed any listings of the LD Allen Metal Works. In 2006, IEPA conducted a pre-CERCLIS screening action for this site. IEPA obtained a copy of the building permit which is dated March 5, 1928. This contradicts the claim that LD Allen occupied this area during the 1931 through 1964 time period cited in the Eckel Report. There are no private wells in this area as everyone is on Lake Michigan water. This site was not a lead smelter and does not appear to pose a risk to humans.

### Loewenthal Metals Corp. (Region 5, CERCLIS ID# ILP000510081)

947 West Cullerton  
Chicago, IL 60608

This property is currently located in a high-density residential area within the west portions of the City of Chicago. The property is now an empty lot, with new residential apartment complex located to the west of the open lot. There are no sidewalks on the perimeter of the area, so the

residents have made a dirt path on the northern edge of the property. Numerous school children use this path to get to school. Older homes are currently undergoing renovation. Currently, conditions would suggest that human exposures to past contaminations may be limited to the nearby residential yards and the right-of-way. IEPA conducted an X-ray fluorescence investigation in July 2006. This investigation indicated that there were 7 of 16 XRF results in excess of 400 ppm. However, since the problem appears to be localized, the site would not be eligible for further Superfund remedial work. IEPA may consider referring the site to Superfund removal for some limited action; however, at the submission of this report, IEPA did not report any future actions.

Michigan Smelting & Refining Co. (Region 5, CERCLIS ID# ILNP00510018)  
410 N. Michigan Ave.  
Chicago, IL

IEPA conducted a pre-CERCLIS screening action on this site on 9/28/2005. The action was entered into CERCLIS as ILNP00510018. The site was entered as not a valid site or incident. This site is located in downtown Chicago, approximately one block north of the Chicago River. The area around the site is composed of high-rise offices and commercial properties. The Wrigley Building is located at 410 North Michigan Avenue. Given the age of the Wrigley Building, it is probable that the offices, not the smelter, for the Michigan Smelting and Refining Company were located here. There are no private wells in this area as everyone is on Lake Michigan water. This site does not appear to pose a risk to humans.

#### **EPA Region 6**

Wilkinson Bros. Smelting (Region 6, CERCLIS ID# TXN000606675)  
1120 Ursula  
Laredo, TX

The Texas Commission of Environmental Quality conducted a pre-CERCLIS screening of the Wilkinson Brothers Smelting located at 1120 San Ursula, Laredo, Texas. Review of the Secretary of State's records and interviews with the descendants of the property owner indicated that a scrap yard was operated at this location during the 1950's and 1960's. No evidence of the site being a smelter was discovered. Currently a McDonalds restaurant is located at this residence. Since the restaurant and a concrete parking lot cover this location, there appears to be no risks associated with this site. EPA Region 6 currently has no other actions planned

#### **EPA Region 7**

American Lead Products (Region 7, CERCLIS ID# MON000705365)  
2939 Chouteau Ave. Crown  
St. Louis, MO 63103

The American Lead Products Company site is not recommended for entry into CERCLIS at this time. Sampling documented that lead was present below the EPA PRG residential screening levels in surface soils within one mile of the site. Although the concentrations of lead in one

sample exceed three times the background concentrations, this sample was located in a small area near a roadway. There is no evidence of widespread contamination due to smelting activities in the area. The source of this contamination is likely attributable to former leaded gasoline use.

### **EPA Region 8**

Utah Metal Works (renamed to Utah Metal Smelter) (Region 8, CERCLIS ID# UTN000802637)  
1155 Hays Ave.  
Salt Lake City, UT 84104

A pre-CERCLIS screening action was completed on May 9, 2006, and it was determined that this site did not require entry into CERCLIS for further assessment. The decision was based on the site visit which found no evidence of past smelter activities at the address or in the nearby area. An older residential neighborhood occupies the area.

### **EPA Region 9**

Bunker Hill Co. (Region 9, CERCLIS ID# CAN000908409)  
660 Market  
San Francisco, CA 94104

This property is currently occupied by an office building in a major commercial area of downtown San Francisco. The telephone directory shows no listing for any Bunker Hill Co. in San Francisco. There is no historical information readily available for this business name at this location. The area is completely paved over, and there are no drinking water wells within four miles of the site.

Finn, John, Metal Works (Region 9, CERCLIS ID# CAN000908410)  
384 2<sup>nd</sup>  
San Francisco, CA 94107

The address for this site was listed as 384 Second Street in San Francisco; however, city records do not show such an address exists. An internet search identified an historical business called John Finn Metals at 372 Second Street, although this address is not recorded by the city either. The approximate location of both addresses is currently occupied by a large modern office building with offices and commercial space. The area is completely paved over, and there are no drinking water wells within four miles of these locations.

Kramer, H. & Co. (Region 9, CERCLIS ID# CAN000908412)  
631 S. Aviation Blvd  
El Segundo, CA 90245

EPA completed a pre-CERCLIS screening and site visit on July 26, 2006. The site is currently paved over and serves as an industrial park. There is no historic information available indicating that there ever was waste at this site. No further federal Superfund response is planned at this site.



Secondary Metal Dept. (ASARCO) (Region 9, CERCLIS ID# CAN000908408)

405 Montgomery  
San Francisco, CA 94104

The address for this site was listed as 405 Montgomery in San Francisco and is currently occupied by the Omni Hotel. The address for this hotel is listed as 500 Harrison Street. Montgomery and Harrison is an intersection in the financial district of downtown San Francisco. The area is completely paved over, and there are no drinking water wells located within four miles of this site. No further Superfund response work is planned.

Sonken-Galamba Corp. (Region 9, CERCLIS ID# CAN000908413)

1439 W. 178<sup>th</sup>  
Gardena, CA 90248

EPA completed a pre-CERCLIS screening and site visit on July 24, 2006. The site is currently paved over and serves as an industrial park. There is no historic information available indicating that there ever was waste at this site. No further federal Superfund response is planned at this site.